

COUNTY OF ANGUS



# **Annual Report**

OF THE

**MEDICAL OFFICER OF HEALTH**

AND OF THE

**COUNTY SANITARY INSPECTOR**

FOR THE YEAR

**1972**



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**1972**



PUBLIC HEALTH DEPARTMENT,  
RAVENSWOOD,  
FORFAR, JULY, 1973.

To:-

The County Council of Angus

The Town Councils of Brechin, Carnoustie, Forfar, Kirriemuir,  
Monifieth and Montrose.

The Scottish Home and Health Department.

Ladies and Gentlemen,

As required by Local Health Authority Services Circular No. 13/1972 issued by the Scottish Home and Health Department I herewith submit my Report on the Health of the County during the year 1972 with a report on the School Medical Service for the year ending 31st July, 1972.

I wish to record my thanks to members of the Health Committee for their interest and help also to all members of the staff.

I am,  
Your obedient Servant,  
(Signed) W. BURNETT,  
Medical Officer of Health.



## STAFF OF PUBLIC HEALTH DEPARTMENT

Medical Officer of Health	...	Walter Burnett, M.B., Ch.B., D.P.H.
Depute Medical Officer of Health	...	Margaret D. Hird, M.B., Ch.B., D.P.H.
Senior Medical Officer in Department		Jessie C.M. Learmonth, M.B., Ch.B., D.P.H.
Medical Officer in Department	...	Frederick R. Hood, M.B., Ch.B.
Part-time Medical Officers in Department	...	Winifred W. Lumsden, M.B., Ch.B. Sheila M. Tocher, M.B., Ch.B., D.P.H.
Temporary Medical Officer in Department	...	Catherine O. Tapper, M.B., Ch.B. (Commenced 23.10.72)
Chief Dental Officer	...	Douglas N. Anderson, L.D.S.
Dental Officers	...	Ena A. Millar, L.D.S. Elizabeth J. Mann, L.D.S. Keith C. Forsey, B.D.S. Andrew O. Lilburn, B.D.S. (Resigned 31.12.72) John W. Peatie, B.D.S. (Commenced 16.5.72)
Chief Chiropodist	...	Leslie F. Brash, M.Ch.S., S.R.Ch.
Senior Chiropodists	...	Mrs. S. Anderson, M.Ch.S., S.R.Ch. Mrs. M. Harley, M.Ch.S., S.R.Ch. David J.P. Neave, M.Ch.S., S.R.Ch. James Crawford, S.R.Ch. (Commenced 19.6.72)
Part-time Senior Chirpodist	...	John Forbes, S.R.Ch. (Resigned November, 1972)
Superintendent of Nurses	...	Elizabeth M. Proctor, R.G.N., S.C.M., Q.N., H.V.
Depute Superintendent of Nurses	...	Dorothy H. Haxton, R.G.N., R.F.N., H.V.
County Sanitary Inspector	...	Robert A. Taylor
Depute Sanitary Inspector	...	Thomas Gordon
Depute Master of Works	...	William Henderson
Sanitary Inspectors	...	Laurence Borthwick (Resigned September, 1972) James Somerville Thomas Hendry (Resigned April, 1972) Vincent Connor Stewart Heggie (Commenced 23.10.72)
Building Inspector	...	George Milne
Milk Officer	...	Christian J.W. Gall, B.Sc., (Agric.) N.D.D.
Dental Attendants	...	Gillian Esplin (Wilson from 7.10.72) Margaret A. Robertson Barbara White Rachel J. McIntosh Pauline Pearson (Thomson from September, 1972) Sandra Burnett (Commenced 1.6.72)

## NURSING STAFF

## HEALTH VISITORS/SCHOOL NURSES

## NURSING DISTRICT

Ethel C. Clark, R.G.N., Q.N.	...	Brechin Burgh (Transferred on 1.10.72 to Kirriemuir - temporary)
Moiria M. Reid, R.G.N., S.C.M., H.V.	...	Brechin Burgh (Commenced 1.10.72)
Jean F. Henderson, R.G.N., S.C.M., H.V.	...	Carnoustie Burgh
Isabel M. Henderson, R.G.N., H.V.	...	Forfar Burgh (Commenced 16.9.72)
Eleanor Grieve, R.G.N., R.F.N.	...	Forfar Burgh
Susan E. Greaves, R.G.N.	...	Forfar Burgh (Resigned 15.11.72)
Catherine Findlay, R.G.N., S.C.M.	...	Forfar Burgh (Commenced 16.11.72)
Patricia Malloch, R.G.N., S.C.M., H.V.	...	Monifieth Burgh
Jane A. Stoddard, R.G.N., S.C.M., H.V.	...	Monifieth Burgh (Commenced 1.12.72 - Temporary)
Margaret R. Anderson, R.G.N., S.C.M., H.V.	...	Montrose Burgh
Ann S. Herschell, R.G.N., S.C.M., H.V.	...	Montrose Burgh (Resigned 31.5.72)
Roberta J.C. Waddell, R.G.N., S.C.M., H.V.	...	Montrose Burgh (Commenced 1.6.72)
Margaret Deuchar, R.G.N., S.C.M.,	...	Monifieth and Carnoustie (Part-time) (Resigned 31.12.72)

## DISTRICT NURSE/MIDWIFE/HEALTH VISITORS

## NURSING DISTRICT

Phyllis Donald, R.G.N., S.C.M., Q.N., H.V.	...	Airlie
Marjorie Ogilvie, R.G.N., R.F.N., S.C.M., Q.N.		Arbirlot
Elizabeth Watt, R.G.N., S.C.M., H.V.	...	Auchterhouse
Ann Strathern, R.G.N., S.C.M., Q.N.	...	Careston
Robina Lindsay, R.G.N., S.C.M., Q.N.	...	Edzell
Jane Edwards, R.G.N., S.C.M., Q.N.	...	Hillside
Susanne Kranold, R.G.N., S.C.M., Q.N.	...	Inverarity
Jessie A. Bruce, R.G.N., S.C.M., Q.N., H.V.	...	Inverkeilor
Elizabeth Topen, R.G.N., S.C.M., Q.N., H.V.		Kirriemuir (to 31.1.72)
Sarah Carmichael, R.G.N., S.C.M., Q.N.	...	Kirriemuir Landward (to 31.1.72)
Jessie McDougall, R.G.N., S.C.M., Q.N.	...	Letham
Ann Beattie, R.G.N., S.C.M., Q.N.	...	Monikie
Rosetta Ogilvie, R.G.N., S.C.M., Q.N., H.V.	...	Murroes
Elizabeth McKelvie, R.G.N., S.C.M., Q.N.	...	Newtyle
Anna Ogilvie, R.G.N., S.C.M., Q.N.	...	Southesk (Student H.V. for 1 year from September 1972)
Sheena Taggart, R.G.N.	...	Southesk (Temporary Appointment for 1 year from September 1972)

## DISTRICT NURSE/MIDWIFE/HEALTH VISITORS

Elizabeth Budka, R.G.N., S.C.M., Q.N.	...
Elizabeth Topen, R.G.N., S.C.M., Q.N., H.V.	...
Ethel C. Clark, R.G.N., Q.N.	...
Sarah Carmichael, R.G.N., S.C.M., Q.N.	...
Wilma Penman, R.G.N., S.C.M.	...

GENERAL PRACTITIONER  
ATTACHMENT

Friockheim Practice
Kirriemuir Practice (from 1.2.72) (Resigned 15.8.72)
Kirriemuir Practice (Transferred from Brechin 1.10.72 – Temporary)
Kirriemuir Practice (from 1.2.72) (Student H.V. for 1 year from September, 1972)
Kirriemuir Practice (Temporary Appointment for 1 year from September, 1972)

## DISTRICT NURSE/MIDWIVES

Catherine MacKenzie, R.G.N., S.C.M., Q.N.	...
Grace Stewart, R.G.N., S.C.M., Q.N.	...
Margaret Forrest, R.G.N., S.C.M., Q.N.	...
Alexa Robertson, R.G.N., S.C.M.	...
Janet Findlay, R.G.N., S.C.M., Q.N.,	...
Elizabeth Lord, R.G.N., S.C.M., Q.N.	...
Helen Mair, R.G.N., S.C.M.	...
Margaret R. Bell, R.G.M.	...
Susan Clark, R.G.N., Q.N.	...
Joan Stewart, R.G.N., Q.N.	...
Grace Williams, R.G.N., Q.N.	...

## NURSING DISTRICT

Brechin
Brechin
Carnoustie
Carnoustie
Forfar
Monifieth
Forfar (Part-time)
Forfar (Part-time)
Montrose
Montrose
Montrose

## CLERICAL STAFF

Margaret D. McIntosh	...	Senior Clerkess
Margaret Davidson	...	Senior Clerkess
Elizabeth Robertson	...	Clerkess/Typist
Barbara B. Coull	...	Clerkess/Typist (Resigned 26.5.72)
Elizabeth C. Kinnear	...	Clerkess/Typist (Resigned 30.11.72)
Kathleen Kennedy	...	Clerkess/Typist
Irene N. Robertson	...	Clerkess/Typist
Rosemary Vorm	...	Clerkess/Typist
Kathryne E. Ferrier	...	Junior Clerkess/Typist
Joyce Gourlay	...	Junior Clerkess/Typist
Marion Black	...	Junior Clerkess/Typist (Commenced 1.6.72)
Ruth J. Fraser	...	Clerkess/Typist (Sanitary Department)
Gweneth Carr	...	Junior Clerkess/Typist/Telephonist (Sanitary Department)



## CLINIC SESSIONS

## FORFAR BURGH

at Ravenswood

Monday	9.30 a.m.	Minor Ailments (School Medical Service)
Monday	9 - 4 p.m.	Speech Therapy (Recommended 16.10.72)
Monday (by arrangement)	2.00 p.m.	Specialist Clinic (Mental Deficiency)
Tuesday (by arrangement)	9.00 a.m.	Specialist Clinic (Eye)
Tuesday (2nd in month)	9.30 - 12 noon	Specialist Clinic (Orthopaedic)
Tuesday	2 - 4 p.m.	Child Welfare
Wednesday (by arrangement)	2.00 p.m.	Specialist Clinic (Eye)
Wednesday	2.30 - 4.30 p.m.	Physiotherapy Treatment
Thursday	9.30 a.m.	Minor Ailments (School Medical Service - Nurses Clinic)
Thursday	2.30 - 3.15 p.m.	Mothercraft
Thursday	3.15 - 4.15 p.m.	Antenatal Relaxation Class (in abeyance)
By Arrangement		Cervical Cytology Clinic
By Arrangement		Family Planning Clinic

## BRECHIN BURGH

at Damacre Road

Monday	9.30 a.m.	Minor Ailments (School Medical Service — Nurses Clinic)
Monday (by arrangement)	2.00 p.m.	Specialist Clinic (Mental Deficiency)
Tuesday	9 - 12 noon	Speech Therapy (Maisondieu School)
Tuesday (by arrangement)	1.45 p.m.	Specialist Clinic (Eye)
Wednesday	2 - 4 p.m.	Child Welfare
Thursday	11.15 a.m.	Minor Ailments (School Medical Service)
By Arrangement		Cervical Cytology Clinic
By Arrangement		Family Planning Clinic

## MONTROSE BURGH

at Esk House

Monday	9.30 a.m.	Minor Ailments (School Medical Service — Nurses Clinic)
Monday (by arrangement)	2.00 p.m.	Specialist Clinic (Mental Deficiency)
Tuesday	9 - 4 p.m.	Speech Therapy
Tuesday	2.00 p.m.	Baby Weighing Clinic
Wednesday (by arrangement)	2.00 p.m.	Specialist Clinic (Eye)
Thursday (by arrangement)	9.30 a.m.	Specialist Clinic (Eye)
Thursday	12.00 noon	Minor Ailments (School Medical Service)

## MONTROSE BURGH (continued)

Thursday	2.30.-3.30 p.m.	Mothercraft
Thursday	3 - 4 p.m.	Antenatal Relaxation Class
Friday	2 - 4 p.m.	Child Welfare
By arrangement		Cervical Cytology Clinic
By arrangement		Family Planning Clinic

## CARNOUSTIE BURGH

at 126 High Street

Monday (by arrangement)	2.00 p.m.	Specialist Clinic (Mental Deficiency)
Thursday	2 - 4 p.m.	Child Welfare

at Kinloch School

Thursday	9 - 12 noon	Speech Therapy
By Arrangement		Cervical Cytology Clinic
By Arrangement		Family Planning Clinic

## MONIFIETH BURGH

at Seaview

Monday (by arrangement)	2.00 p.m.	Specialist Clinic (Mental Deficiency)
Monday	2 - 4 p.m.	Child Welfare
Thursday	9 - 12 noon	Speech Therapy
By Arrangement		Cervical Cytology Clinic
By Arrangement		Family Planning Clinic

## ARBROATH CLINIC

at 7 Hill Street

Monday	2.00 p.m.	Specialist Clinic (Mental Deficiency)
Monday	2.30 p.m.	Minor Ailments (School Medical Service — Nurses Clinic)
Tuesday (by arrangement)	2.00 p.m.	Specialist Clinic (Eye)
Tuesday	2 - 4.30 p.m.	Physiotherapy Treatment
Wednesday, 1st, 3rd and 4th	9.30 - 12 noon	Specialist Clinic (Orthopaedic)
Wednesday (by arrangement)	2.00 p.m.	Specialist Clinic (Eye)
Thursday (by arrangement)	9.30 a.m.	Specialist Clinic (Eye)
Thursday	2.00 p.m.	Minor Ailments (School Medical Service — Nurses Clinic)
Friday	9 - 4 p.m.	Speech Therapy

Chiropody Clinics are held by appointment at:-

7 Hill Street	...	...	Arbroath
Damacre School Clinic	...	...	Brechin
Clinic, 126 High Street	...	...	Carnoustie
Ravenswood Clinic	...	...	Forfar
Esk House Clinic	...	...	Montrose
Inglis Memorial Hall	...	...	Edzell
Church Hall	...	...	Ferryden
Town Hall	...	...	Kirriemuir
Clinic, Seaview School	...	...	Monifieth
Ex-Service Hut	...	...	Muirhead (Until November 1972)
Practice Centre, Jollymount	...	...	Muirhead (From December 1972)
The Hall	...	...	Tealing
Nurses' Homes	...	...	Hillside, Letham, Newtyle, Glamis and Friockheim

Home visits are paid to Burgh cases who are unable to attend the Clinic and to country cases where there is no convenient Clinic or suitable accommodation available in the District Nurse's house serving the area.

## VITAL STATISTICS

The Registrar General has estimated the mid-year population of the County to be 75,430 which compares with 74,436 in the 1971 census year and 76,197 in the 1961 census year.

Population	1972	1971	1961
Burgh of Brechin	6685	6702	7198
Carnoustie	6568	6288	5516
Forfar	10897	10651	10252
Kirriemuir	4230	4192	3476
Monifieth	6832	6300	3488
Montrose	10096	10091	10793
Total Burghal	45308	44224	40723
Landward	30122	30212	35474
	<u>75430</u>	<u>74436</u>	<u>76197</u>

### BIRTHS

	1972	1971	1970
Live births allocated to the County	1075	1100	1147
Birth Rate	14.3	14.8	15.6

Live births according to the area of mother's residence:—

	1972	1971	1970
Burgh of Brechin	87	89	90
Carnoustie	90	91	90
Forfar	173	157	148
Kirriemuir	63	61	66
Monifieth	132	114	136
Montrose	143	136	151
Landward	387	452	466
	<u>1075</u>	<u>1100</u>	<u>1147</u>

### STILL BIRTHS

	1972	1971	1970
After correction for transfer:-			
No. of still births	7	12	18
Still birth rate (No. of still births per 1000 births)	6	11	15

### ILLEGITIMATE BIRTHS

	1972	1971	1970
No. of illegitimate births	57	54	65
Illegitimate birth rate (per 100 live births)	5.3	4.9	5.7

## DEATHS

	1972	1971	1970
After correction for transfer:—			
No. of deaths	1031	973	994
Death Rate (No. of deaths per 1000 population)	13.7	13.1	13.5

## Distribution of Deaths by Age Groups:—

	1972	1971	1970
Under 1 year	17	25	18
From 1 - 4 years	5	4	6
5 - 9 years	0	2	5
10 - 14 years	1	0	0
15 - 24 years	16	4	15
25 - 34 years	6	2	9
35 - 44 years	14	11	21
45 - 54 years	53	43	43
55 - 64 years	136	128	134
65 - 74 years	282	255	284
75 - 84 years	290	322	294
85 years and over	211	177	165

## The diseases responsible for the largest number of deaths were:-

	1972	1971	1970
Diseases of the Heart and Circulation	403	413	380
Malignant Disease	202	197	205
(including Cancer of the Lung)	42	36	41
Cerebro-vascular Disease	132	154	132
Other Diseases of the Nervous System	15	9	18
Diseases of the Respiratory System	116	77	118
Diseases of the Genito Urinary System	13	22	20
Diseases of the Digestive System	29	23	15
Diabetes	8	7	18

	1972	1971	1970
No. of Death from Violence	60	37	42

## Included in the above deaths from violence were:-

	1972	1971	1970
Deaths by suicide	7	5	5
Deaths by road vehicle accidents	24	11	17
Deaths by accidents in the home	7	11	14

## INFANT MORTALITY

After correction for transfer:-			
	1972	1971	1970
No. of deaths of children under 1 year	17	25	18

## INFANT MORTALITY

	1972	1971	1970
Infant mortality rate (per 1000 live births)	16	23	16
No. of deaths of children under 4 weeks	11	18	9
Neonatal death rate (per 1000 live births)	10	16	8

## PERINATAL DEATHS

	1972	1971	1970
No. of still born infants	7	12	18
No. of infants who died in first week of life	10	15	7
Total (i.e. no. of perinatal deaths)	17	27	25
Perinatal death rate (per 1000 live and still births)	15.71	24.28	21.46

## Cause of death in infants:-

	Under 4 weeks	4 Weeks to 1 Year
Birth injury, difficult labour and other anoxic and hypoxic conditions	7	-
Congenital anomaly of the central nervous system	-	1
Congenital anomaly of the circulatory system	1	1
Bronchopneumonia and intestinal necrosis	1	-
Intestinal obstruction and hernia	1	-
Epignathus, other congenital deformities and prematurity	1	-
Terminal bronchopneumonia, disaccharide intolerance, septal defect	-	1
Inhaled vomit	-	2
Inhaled vomit, Russell-Silver Dwarf Syndrome	-	1

## DEATHS FROM TUBERCULOSIS

	1972	1971	1970
No. of deaths	3	1	-

## SENILE DEATHS

	1972	1971	1970
No. of persons who died after their 65th birthday	783	754	743
Senile death rate (per 1000 deaths)	75.9	77.5	74.75

## MATERNAL DEATHS

There were no deaths from child-birth in 1972.

## LOCAL AUTHORITY FUNCTIONS

### MIDWIFERY, MATERNITY AND CHILD WELFARE SERVICES

Births in Angus before transfer, i.e. before correction for mothers' usual place of residence:-

	1972	1971	1970
No. of babies born within the County	428	506	477
No. of still births (included in above)	-	1	2
Place of Birth	1972	1971	1970
Own Home	No. of births	6	8
	Percentage	1.2	1.7
Fyfe-Jamieson	No. of births	255	242
Maternity Home	Percentage	50.4	50.7
Charleton	No. of births	245	227
Maternity Home	Percentage	48.4	47.6

Births to Angus mothers after transfer, i.e. after correction for mothers' usual place of residence:-

	1972	1971	1970
No. of live births	1075	1100	1147
No. of still births	7	12	18
Total no. of births	1082	1112	1165

Births transferred to Angus occurred in the following hospitals:-

	1972	1971	1970
Dundee Royal Infirmary	354	348	371
(still births included)	3	5	11
Maryfield Hospital, Dundee	247	221	258
(still births included)	4	5	5
Arbroath Infirmary	94	101	109
Aberdeen Maternity Hospital	4	5	11
(still births included)	-	1	-
Perth Royal Infirmary	5	6	6
Blairgowrie Cottage Hospital	7	9	5
Torphins Maternity Hospital, Aberdeen	-	1	-
Simpson Maternity Hospital, Edinburgh	-	2	-
Arduthie Hospital, Stonehaven	-	-	1
Elsie Inglis Hospital, Edinburgh	2	-	-
Craigtoun Maternity Home, St. Andrews	1	-	-
Fonthill Maternity Home, Aberdeen	1	-	-

## CARE OF MOTHERS AND YOUNG CHILDREN

### HEALTH VISITING

Much of the care of mothers and young children is done by home visits paid by the Health Visitors or by District Nurses doing Health Visiting duties. At these visits advice is given and the child's development is kept under surveillance, medical consultation



being obtained when any abnormality is seen. Immunisation of the child is advised and explained. Health education is included in these visits, often in an unobstrusive and effective manner to mothers who would be unwilling to accept more formal teaching.

#### MATERNAL AND CHILD WELFARE VISITS

Visits in 1972	No. of Cases	No. of Visits
1. Expectant Mothers	1149	4281
2. Children born in 1972	1162	9046
3. Children born in 1971	1781	9799
4. Children born in 1967-1970	4290	13032
5. Total	8382	36158

Comparison of above table with corresponding figures in previous two years.

	1972		1971		1970	
	Cases	Visits	Cases	Visits	Cases	Visits
1.	1149	4281	1230	4387	1009	3556
2.	1162	9046	1217	9694	1298	10275
3.	1781	9799	1700	9509	1857	9060
4.	4290	13032	3954	11320	4315	11343
5.	8382	36158	8101	34910	8479	34234

#### CHILD WELFARE CLINICS

	No. of Clinics per week	NO. OF CHILDREN ATTENDING			
		Born 1972	Born 1971	Born 1967-1970	Total Attendances
Brechin	1	52	73	57	1523
Carnoustie	1	101	110	104	1646
Forfar	1	111	82	121	1349
Monifieth	2	85	121	140	1551
Montrose	2	137	124	227	2527
Totals for 1972		486	510	649	8596
Comparable Totals					
For 1971		502	515	576	9328
For 1970		520	454	593	9705

The above Clinics are staffed by the Local Authority Doctors and Health Visitors. The children's development and progress are assessed and where necessary investigation and treatment are initiated. Advice is given. Mothers are encouraged to ask about their problems and doubts. Since the early days of Child Welfare Clinics the types of problems and anxiety of the mothers have changed from time to time, but the support given at these Clinics is still of undoubted value. Much of the Health Education to young mothers is reiterated at these Clinics, and mothers are invited to attend the educational films shown and amplified by the Health Visitors at the Mothercraft Sessions. Immunisation is advised and carried out against Diphtheria, Tetanus, Whooping Cough, Polio-myelitis and Measles.

Welfare Clinics were held by the District Nurse/Health Visitors in the duty rooms of their houses at Kirriemuir, Cortachy, Newtyle and Hillside.



## MOTHERCRAFT SESSIONS

These sessions for expectant mothers are held in the Burgh Clinics. Women who are expecting their first babies are particularly encouraged to attend.

	No. of Mothers Attending	No. of Attendances
Brechin	3	6
Forfar	27	104
Montrose	52	258
	82	368

## WELFARE FOODS

Distribution of Welfare Foods at Clinics and by District Nurses.

Number of:-

	Packets of Vitamin Tablets for Mothers	Packets of Dried Milk	Bottles of Cod Liver Oil	Bottles of Orange Juice	Bottles of Vitamin A.D. & C Drops for Babies
1972	1140	1918	19	5475	3621
1971	904	1831	682	19666	1548
1970	1206	3407	1093	21212	-

In 1971 drops containing vitamins A, D and C were introduced to replace Cod Liver Oil (A and D) and Orange Juice (C), and the changeover was completed in 1972. There was an increase in the quantity of Vitamin Drops taken up as compared with the amount of Cod Liver Oil in previous years, but a decrease as compared with the amount of Orange Juice. This does not really indicate whether babies were given more or fewer vitamins as many mothers used to prefer proprietary preparations to Cod Liver Oil, while the Orange Juice was undoubtedly popular with toddlers and many mothers bought Rose Hip Syrup as a source of vitamin C.

## ORTHOPAEDIC CARE

Children under school age attending County Orthopaedic Clinics under the Scheme.

	Angus County			Arbroath Burgh			Total		
	1972	1971	1970	1972	1971	1970	1972	1971	1970
No. of children seen by Specialist	296	342	252	517	434	596	813	776	848
No. of cases receiving Physiotherapy	57	66	54	64	81	54	121	147	108
No. of cases referred to Hospital for treatment	3	11	13	7	4	13	10	15	26

The children seen at Arbroath Burgh Clinic include children from the surrounding landward area and from Carnoustie as well as Arbroath children.

## OPHTHALMIC CARE

No. of children under school age referred to Eye Specialists:-

	1972	1971	1970
New cases	32	37	27
Old cases	58	34	39
Total	90	71	66

## DENTAL CARE

No. of cases treated by County Council's Dental Staff as an extension of the School Dental Service:-

	1972	1971	1970
Expectant Mothers	6	3	4
Nursing Mothers	5	5	2
Children under School Age	42	42	29
Total	53	50	35

Details of treatment given in 1972:-

### Pre-School Children

Fillings in deciduous teeth	55
Extractions of deciduous teeth	34
Other operations	36
General anaesthetics	2

### Expectant and Nursing Mothers

Fillings in permanent teeth	32
Extractions of permanent teeth	1
Other operations	17
Dentures supplied	-

## AT RISK REGISTER

This is a Register of pre-school children who may develop or acquire physical or mental defects as a result of known pre-natal, intra-natal or post-natal factors. Their progress is reviewed at regular intervals and their names are removed from the Register if it is evident that no defect has been or is likely to be caused, or if a handicap has become manifest they are transferred to the Handicapped Register.

Much of the information to complete this Register comes from Maternity Hospital or Maternity Home Discharge Summaries after confinement, known family social and medical histories and reports from the Consultant Paediatricians.

Total No. of Children on Register at 31st December:-

	1972	1971	Corresponding figures for 1970
Children born in 1972	317	210	238
1971	127	130	157
1970	111	98	65
1969	106	76	38
1968	26	33	28
Total	687	547	526

## PHENYLKETONURIA TESTING

Phenylketonuria is an inborn metabolic error which, if untreated, leads to rapid development of mental retardation. If it is detected at a very early stage and treatment by a special diet is introduced and maintained this mental retardation can be prevented. Once it has developed it cannot be cured. To detect phenylketonuria at the earliest possible stage, blood samples are taken in the neonatal period and sent to Stobhill Hospital, Glasgow. The Medical Officer of Health makes every effort to ensure that all infants have this test done. The blood sample is taken either at the hospital where the baby was born, or at home by the Health Visitor or District Nurse, unless it has been ascertained that the General Practitioner wishes to do it himself. When a repeat test is needed it is usually done by the nurse. This testing scheme was successfully operated throughout the year. 1130 tests were done and no case of phenylketonuria was found.

## FAMILY PLANNING

No. of Clinics held and attendances:—

	No. of Sessions	No. of New Cases Seen	No. of Cases Re-examined	Total Attendances
Brechin	9	10	33	43
Carnoustie	5	8	9	17
Forfar	18	36	59	95
Monifieth	6	7	4	11
Montrose	20	51	105	156
Total 1972	58	112	210	322
Total 1971	45	64	119	183
Total 1970	33	40	69	109

42 intra-uterine devices were supplied and 19 women were given contraceptive pills.

The above Clinics were staffed by Local Authority Doctors and Health Visitors.

Angus women also made 198 attendances at Family Planning Association Clinics in Dundee, these attendances being paid for by Angus County Council by mutual arrangement with the Association. The majority of those attending lived near Dundee.

## NURSING SERVICES

### HEALTH VISITING

In the burghs, except Kirriemuir, the Health Visiting duties were done by the Health Visitors, with assistance from the District Nurses and School Nurses, and in Kirriemuir and the Landward Districts by the District Nurses doing combined duties. As in previous years in the Glenisla District, by arrangement with Perthshire County Council, the Health Visiting duties were carried out by the Alyth District Nurse.

Health Visiting duties include the care of mothers and young children, visits to notified cases of tuberculosis and their contacts, visits to old people, inspection of school children with, when necessary, visits to the children's homes, assisting with epidemiological investigations, Health Education and visits connected with the Home Help Service and Mental Health. The Burgh Health Visitors and School Nurses also staff the clinics held under the various schemes of the Local Authority.

Numerical details of the Health Visitors' work are shown in a table at the end of this section.

## HOME NURSING

This service is carried out by the District Nurses employed by the County Council, and in the Glenisla District by the Alyth District Nurse by arrangement as described above.

Particulars of this service are detailed in the tables at the end of this section.

## MIDWIFERY SERVICES

These services are provided by the District Nurses who undertake midwifery and also by the Alyth District Nurse. There were no home confinements during the year. Domiciliary post-natal care is given to mothers and their babies who are discharged from hospital early in the lying-in period. Ante-natal supervision is also carried out by either District Nurses or Health Visitors. Many pregnancies become known to the Health Department after confinement has been booked at the Maternity Hospital and for one reason or another this may be somewhat late. Figures are given in the tables at the end of this section.

## LINKS BETWEEN GENERAL MEDICAL PRACTITIONERS AND THE LOCAL AUTHORITY NURSES

In Friockheim complete attachment of a District Nurse/Health Visitor/Midwife, which had been instituted in 1971, continued throughout 1972.

In February of this year the two District Nurses doing triple duties in Kirriemuir Burgh and in Kirriemuir Landward Area were attached to the Group General Medical Practice in Kirriemuir. The care of patients living in these two Districts but who are on the lists of other doctors is now shared by the District Nurses in the Glamis and Careston Districts and the Alyth Nurse who is in the Glenisla District.

The Health Visitors and District Nurses assisted General Practitioners at their Clinics in connection with maternal and child care in Brechin, Carnoustie, Montrose, Newtyle and Muirhead. A Forfar Practitioner was assisted by the District Nurse at Cervical Cytology Clinics.

## HEALTH VISITING – SUMMARY OF TYPES OF VISIT

	No. of Cases	No. of Visits
1. Expectant Mothers	1149	4281
2. Pre-School Children		
Born in 1972	1162	9046
Born in 1971	1781	9799
Born in 1967-70	4290	13032
	<hr/> 7233	<hr/> 31877
3. School Children	783	1683
4. Persons aged 65 and over	1750	12694
includes those visited at request of G.P. or Hospital	<hr/> 185	<hr/> 932
5. Mental Health - Care and After-Care	135	550
includes those visited at request of G.P. or Hospital	<hr/> 9	<hr/> 64

## HEALTH VISITING (continued)

	No. of Cases	No. of Visits
6. Other Hospital After Care includes those visited at request of G.P. or Hospital	41	796
	<u>21</u>	<u>734</u>
7. Tuberculosis Households	165	408
8. Infectious Disease	54	75
9. Home Help Supervision, etc.	389	2863
10. Miscellaneous	<u>1150</u>	<u>1674</u>
Total	<u>12849</u>	<u>56901</u>
	1972	1971
Total No. of Cases	12849	12786
Total No. of Visits	56901	55886

## HOME NURSING – SUMMARY OF TYPE OF CASE

Type of Case	Total No. of Cases
Abdominal . . . . .	67
Anaemia . . . . .	319
Bronchitis and Pneumonia . . . . .	76
Cardiac . . . . .	113
Cerebral . . . . .	115
Diabetes . . . . .	42
Disseminated Sclerosis . . . . .	28
Obstruction . . . . .	46
Renal . . . . .	25
Senility . . . . .	190
Carcinoma . . . . .	132
Tuberculosis . . . . .	5
Other Conditions (Medical) . . . . .	386
Gynaecological Cases . . . . .	109
Burns . . . . .	95
Cuts and Bruises . . . . .	279
Post-Operative Care . . . . .	254
Varicose Ulcers . . . . .	110
Other Conditions (Surgical) . . . . .	<u>216</u>
	2607
Maternity Cases . . . . .	-
Puerperium Only (Hospital Confinements) . . . . .	<u>134</u>
	<u>2741</u>

Of the 2607 cases 809 were visited on 13377 occasions mainly to give special treatment as shown below:-

	No. of Cases	No. of Visits for Injections etc.
Enemas . . . . .	137	280
Antibiotic Injections . . . . .	<u>65</u>	<u>424</u>
Carried forward	202	704

	No. of Cases	No. of Visits for Injections etc.
Brought forward	202	704
Streptomycin Injections . . . . .	7	352
Liver Injections . . . . .	21	232
Cytamen and Vitamin B. Injections . . . . .	304	7103
Diuretic Injections . . . . .	23	355
Insulin Injections . . . . .	18	1856
Other Injections . . . . .	165	2558
Gynaccological Cases		
Douching or changing pessaries . . . . .	69	217
	<u>809</u>	<u>13377</u>

### AGE-GROUP SUMMARY

	1972	1971	1970
No. of patients aged under 5 years	145	138	188
5 - 65 years	844	823	849
Over 65	1618	1540	1536
Total	<u>2607</u>	<u>2501</u>	<u>2573</u>
Total No. of Visits	56754	54171	53774

### NURSING BENEVOLENT FUNDS

Local Nursing Benevolent Committees throughout the County again augmented nursing equipment provided by the Public Health Department, such as commodes, Zimmer walking aids, etc. Financial aid was given to the chronic sick and towards Home Help expenses. Several patients were given holidays. Funds were made available for the Nursing Superintendent to provide Christmas parcels for the sick and elderly. These parcels were distributed by the District Nurses. Necessitous families, chronic sick and elderly people were given help with food and fuel.



# SUMMARY OF DISTRICT NURSES' WORK FOR YEAR 1972 HEALTH VISITING

	Welfare Visits to Elderly	Home Help Visits	Tuberculosis Visits	Mental Health Visits	Infectious Diseases	Miscellaneous Visits	Child Welfare Home Visits			Child Welfare Clinics			Schools			
							Children born 1972	Children born 1971	Children born before 1971	Children born 1972	Children born 1971	Children born before 1971	At. Drs. School Inspection	At Nurses School Inspection	Minor Ailments	Home Visits
Airlie	49	21	.	18	7	13	133	230	177	.	.	.	106	942	3	21
Arbirlot	201	7	2	.	14	26	204	161	190	.	.	.	50	529	2	2
Aucherhouse	122	14	.	2	.	6	220	387	313	55	115	60	191	1573	.	19
Brechin 1	333	22	19	.	.	.	.	.	.	.	.	.	.	.	.	.
Brechin 2	411	248	40	.	.	.	.	.	.	.	.	.	.	.	.	.
Careston	966	.	6	78	.	.	466	694	662	.	.	.	274	1463	.	103
Carnoustie 1	831	90	.	113	.	297	.	.	.	.	.	.	.	.	.	.
Carnoustie 2	407	52	.	.	.	284	.	.	.	.	.	.	.	.	.	.
Edzell	110	.	7	.	.	10	297	590	505	.	.	.	104	1189	.	.
Forfar 1	353	227	.	.	.	50	.	.	.	.	.	.	.	.	.	.
Forfar 2	28	2	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Forfar 3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Frickheim	285	12	5	8	.	.	171	175	242	.	.	.	82	1213	.	5
Glenisla	.	.	17	4	.	.	156	78	73	.	.	.	93	380	.	1
Hillside	685	57	11	92	7	255	348	362	461	.	.	.	58	593	.	12
Inverarity	1012	23	8	5	7	116	145	186	468	.	.	.	70	298	2	76
Inverkeilor	224	3	.	20	1	.	315	335	291	.	.	.	85	290	.	41
Kirriemuir	215	130	5	5	11	9	103	183	287	363	386	355	36	111	.	13
Kirriemuir L.	195	31	2	.	1	.	240	285	506	348	511	301	.	401	.	25
Letham	546	23	12	45	1	50	220	136	328	.	.	.	37	828	2	8
Monifieth	321	63	18	.	.	2	.	.	.	.	.	.	.	.	.	.
Montrose 1	1139	451	53	18	.	.	.	.	.	.	.	.	.	2492	1	126
Montrose 2	791	684	24	10	.	.	.	.	.	.	.	.	25	2466	.	82
Montrose 3	886	624	57	.	.	.	.	.	.	.	.	.	.	2674	30	99
Murroes	520	27	.	10	.	.	346	345	220	.	.	.	186	524	4	14
Newbigging	367	12	1	1	.	133	330	383	393	.	.	.	126	865	.	.
Newtyle	359	9	14	14	.	107	260	365	215	12	38	24	161	1977	.	15
Southesk	1238	31	.	20	5	.	383	520	386	.	17	4	42	497	5	31
	12594	2863	301	463	54	1358	4337	5415	5717	778	1067	744	1726	21305	49	693

# SUMMARY OF DISTRICT NURSES' WORK FOR YEAR 1972

	Total Hours on Duty				Nursing Cases						Total No. of Visits								
	Nursing	C.W. Clinics & Health Visiting	Mental Health	Schools	Total	Children under 5 years	Patients 5 years and under 65	Patients 65 years and over	Domiciliary Confinements	Delivered in Hosp. and returned home	Children under 5 years	Patients 5 years and under 65	Patients 65 years and over	Maternity	Ante-natal Visits	Ante-natal Clinics with G.P.	Post-natal	Cytology at G.P. Clinic	
Airlie	1045	520	2	40½	1607½	4	32	19	-	-	13	395	578	-	62	-	20	-	-
Arbriot	1637½	251½	-	15½	1904½	7	32	42	-	2	16	289	1445	15	52	-	37	-	-
Auchterhouse	1062½	528	3	56	1649½	3	27	37	-	16	23	269	1273	73	82	-	-	-	-
Brechin 1	1768	96	-	-	1864	1	9	69	-	-	13	96	2110	-	236	275	-	-	-
Brechin 2	1704½	122½	-	-	1827	-	13	44	-	1	-	97	1869	5	192	71	6	-	-
Careston	841	1137	40	57	2075	1	13	19	-	1	14	320	639	6	571	-	365	-	-
Carnoustie 1	1900½	238½	3	-	2142	7	58	78	-	8	72	1342	2497	56	10	-	-	-	-
Carnoustie 2	1906½	214	-	-	2120½	1	25	85	-	1	4	509	3652	4	-	-	-	-	-
Edzell	918	913	-	76	1907	1	11	36	-	1	3	118	586	7	98	-	-	-	-
Forfar 1	2002	246	-	-	2248	12	67	229	-	-	27	584	2761	-	-	-	-	-	-
Forfar 2	974¾	-	-	-	974¾	-	-	-	-	-	-	391	1013	-	-	-	-	-	-
Forfar 3	434	30	-	3½	467½	-	-	-	-	-	5	111	603	-	-	-	-	-	93
Frickheim	1452½	389	2	32½	1876	10	23	64	-	3	187	307	1554	22	37	375	29	-	-
Glenisla	402½	193	-	18½	614	1	5	8	-	2	4	286	136	10	40	-	-	-	-
Hillside	989	752	14½	27	1782½	18	36	63	-	3	72	714	1277	12	184	19	59	-	-
Inverarity	1047½	1131	3½	30	2212	4	11	24	-	5	18	189	819	17	91	-	106	-	-
Inverkeilor	1377½	333½	30½	14½	1756	9	21	52	-	-	33	292	2133	5	54	30	25	11	-
Kirriemuir	1749¾	516	-	5	2270¾	5	60	112	-	10	19	537	2227	21	67	517	14	128	-
Kirriemuir L.	1662	673¾	-	9½	2345½	10	35	74	-	1	41	625	1868	12	105	518	10	-	-
Letham	1142	564	27½	22	1755½	2	41	47	-	1	11	613	969	12	18	-	-	-	-
Monifieth	1506	201	-	-	1707	5	41	66	-	60	25	236	1575	337	37	-	-	-	-
Montrose 1	1318	425	6	78½	1827½	1	48	101	-	-	3	533	2858	-	-	-	-	-	-
Montrose 2	1623	470½	-	75½	2169	-	42	111	-	-	-	784	2114	-	-	-	-	-	-
Montrose 3	1432	539½	-	97	2068½	-	41	111	-	-	-	495	2463	-	-	-	-	-	-
Murroes	1204	535	7	45	1791	17	38	41	-	4	79	218	1354	23	58	-	35	-	-
Newbigging	1226¾	689	1	26	1942¾	11	57	41	-	3	45	867	1422	87	173	-	-	-	-
Newtyle	1367	344	-	83	1794	12	40	25	-	10	127	458	1308	109	60	69	3	-	-
Southesk	827½	690	4½	23½	1545½	3	18	20	-	2	26	363	733	21	203	12	-	-	-
	36521¼	12742¾	144½	836	50244½	145	844	1618	-	134	880	12038	43836	854	2393	1886	709	232	-



## SUMMARY OF HEALTH VISITORS' WORK FOR THE YEAR 1972

	Ante-natal	Post-natal	Ante-natal at G.P. Clinic	Post natal at G.P. Clinic	Health Education	Tuberculosis	Mental Health	Infectious Diseases	Miscellaneous	Child Welfare Home Visits			Child Welfare Clinic			Clinics					Schools No. of children seen and treated						Mantoux Test	Children received B.C.G.	Total Hours on Duty					
										Children born 1972	Children born 1971	Children born 1968-70	Children 1972	Children born 1971	Children born 1968-70	Mothercraft	Eye	Orthopaedic	M.D.	Family Planning	Cytology	At Drs. Inspection	At Nurses' Inspection	At School Cline Clinic	Home Visits	Children immunised against Poliomyelitis			Children immunised against Diphtheria	Health Visiting and C.W. Clinics	Mental Health	School Nursing	Total	
Arbroath 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	229	-	1	-	-	-	267	1006	19	221	-	-	-	-	-	-	282	282	
Arbroath 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	124	-	-	-	-	-	538	37	-	-	-	-	-	-	-	123	123	
Arbroath 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	94	33	-	-	-	-	49	441	-	10	-	-	-	-	-	71	71		
Arbroath 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	184	463	-	-	-	-	78	483	-	-	-	-	-	-	-	180	180		
Arbroath 5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	148	533	-	-	-	-	2526	2481	-	132	336	-	-	-	-	-	968	968	
Brechin 1	12	6	5	34	-	-	-	1	194	331	331	660	558	581	320	9	242	-	-	43	17	1133	1135	3	55	-	-	-	146	130	1458	-	217½	1657½
Brechin P/T	-	-	-	-	-	-	-	-	64	84	133	276	40	13	11	-	18	-	-	-	-	-	-	-	-	-	-	-	-	-	329	-	-	329
Carnoustie	197	94	299	11	-	-	2	2	1	733	840	976	633	594	419	-	145	-	-	17	49	52	-	-	-	15	15	-	-	-	1576	-	4	1580
Forfar 1	96	78	38	5	95	10	1	11	8	301	89	234	314	59	59	35	128	35	5	28	41	-	-	18	-	-	-	-	-	688	-	-	688	
Forfar P/T	521	151	1	5	-	-	1	3	2	570	368	404	246	285	220	95	26	-	-	67	-	-	37	-	4	-	-	-	-	-	832½	-	1	833½
Forfar 2	-	-	-	-	-	90	1	-	2	463	462	519	21	42	20	-	36	-	5	-	-	1516	4326	50	156	545	519	1040	891	1110	-	744	1854	
Forfar 3	-	-	-	-	-	-	-	-	11	82	187	359	12	9	62	-	469	384	45	-	-	964	5217	95	8	419	406	35	8	1092	-	669	1761	
Monifieth	168	85	-	-	-	7	-	4	8	774	911	1145	536	584	431	-	3	-	1	11	16	65	-	-	11	121	120	74	9	1717	3	-	1720	
Monifieth S/N	308	-	-	-	-	-	-	-	-	91	4	1268	-	-	-	-	-	-	-	-	-	813	6235	-	343	189	173	179	-	621½	1½	433½	1056½	
Montrose 1	286	75	461	37	-	-	25	-	2	725	638	811	478	380	409	158	236	-	14	76	129	317	600	18	12	199	69	49	192	1659	15½	97½	1772	
Montrose 2	300	125	395	19	-	1	59	-	24	555	421	663	568	393	299	152	164	-	12	80	118	845	108	52	38	26	26	44	7	1511	24	143½	1678½	
Totals	1888	614	1199	111	95	108	89	21	316	4709	4384	7315	3406	2940	2250	449	2130	1572	83	322	370	8625	22607	292	990	1850	1328	1903	2195	12594	44	3934	16572	

## HEALTH CENTRES AND CLINICS

### 1. BRECHIN

In the latter part of the year work commenced on the building of the Health Centre at Brechin and it is hoped that the Centre would be ready for occupation in the late summer of 1973.

### 2. KIRRIEMUIR

A site for the Health Centre has been agreed in the Tannage Brae/Croft Terrace Gardens/Gairie Burn Area. At their meeting in November the Health Committee and the County Council approved of the final schedule of accommodation.

### 3. FRIOCKHEIM

Consideration of accommodation, functions and planning for the Friockheim Health Centre have reached an advanced stage and this experimental Centre will involve the General Medical Services, the Local Health Authority, the Hospital Authority and the Social Work Department.

### 4. ARBROATH

Little progress has been made with the Arbroath Health Centre, due mainly to the General Practitioners in Arbroath not being able to agree to participate fully in the project.

### 5. MONIFIETH

Work has started on the building of the Local Health Authority Clinic at Monifieth and it is hoped that completion may be expected by early summer 1973.

## IMMUNISATION

### DIPHTHERIA, TETANUS AND WHOOPING COUGH (PERTUSSIS) IMMUNISATION

Almost all children are given protection in infancy against all three diseases by Triple Vaccine. A combined vaccine against Diphtheria and Tetanus is almost always used for school children, most of whom require only re-inforcing doses to "boost" the protection given them in infancy. This combined re-inforcing dose is given to school entrants, aged five or six years. School "leavers" aged approximately fourteen years are given a re-inforcing injection against tetanus only.

The following tables show the number of immunisations done in 1972 in pre-school and school children, with comparative figures for the total number immunised in 1972, 1971 and 1970.

#### PRIMARY IMMUNISATIONS

	Children born 1968 - 1972	Children born 1967 or earlier	Total Number of Completed Primary Immunisations		
			1972	1971	1970
1. Diphtheria, Tetanus and Whooping Cough	890	11	901	694	1093
2. Diphtheria and Tetanus	2	-	2	22	16
3. Tetanus only	-	589	589	750	779
Total	892	600	1492	1466	1888

#### REINFORCING OR "BOOSTER" IMMUNISATIONS

	Children born 1968-1972	Children born 1967 or earlier	Total		
			1972	1971	1970
1. Diphtheria, Tetanus and Whooping Cough	183	158	341	350	567
2. Diphtheria and Tetanus	3	976	979	744	971
3. Tetanus only	8	789	797	874	187
4. Diphtheria only	-	-	-	2	6
Total	194	1923	2117	1970	1731

### POLIOMYELITIS IMMUNISATION

Primary Immunisation is done in infancy by three doses of oral vaccine. Re-inforcing single doses are offered to school children in the age group five to six years old and in the age group fourteen to fifteen years old.

#### PRIMARY IMMUNISATION

Children born in 1972	Children born in 1966-71	Young persons born before 1966	Total number of primary immunisations		
			1972	1971	1970
23	862	321	1206	974	1154

#### REINFORCING IMMUNISATION

	1972	1971	1970
Young persons of all ages	1840	1784	1413

## MEASLES IMMUNISATION

### NUMBER OF CHILDREN IMMUNISED IN 1972

Children born 1967-1972	Children born 1966	Children Born 1965 or earlier	1972	Total 1971	1970
906	77	104	1087	878	1151

## RUBELLA (GERMAN MEASLES) VACCINATION

Rubella immunisation was continued in 1972 to try to ensure that all girls are offered this protective vaccination before reaching child-bearing age, because of the known association of certain foetal abnormalities with maternal infection in pregnancy.

During the school session 1971/72 all girls born in 1960 were offered rubella immunisation.

The total number of girls given rubella immunisation in 1972 was:-

Girls born in	1961	1960	1959	1958 or earlier	Total
	36	370	7	8	421

Total number of girls immunised against rubella since this vaccination was begun in 1971:-

Girls born in	1961	1960	1959	Before 1959	Total
	36	462	489	859	1846

No adverse reactions were reported.

## SMALLPOX VACCINATION

Routine primary vaccination against smallpox in early childhood is no longer recommended. This accounts for the drop in the number of primary vaccinations.

The following table shows the number of primary vaccinations, re-vaccinations and the total number of vaccinations against smallpox recorded in the County in 1972, with comparative figures for 1971 and 1970.

	1972	1971	1970
Primary Vaccinations	77	898	869
Re-Vaccinations	422	639	655
Total	499	1537	1524

Most of those re-vaccinated were emigrants or travellers abroad who had to comply with the international regulations as enforced by the countries to which or through which they were travelling.

## PREVENTION, CARE AND AFTER CARE

### TUBERCULOSIS

NOTIFICATIONS	1972	1971	1970
Number of cases of pulmonary tuberculosis notified	16	12	14
Number of cases of non-pulmonary tuberculosis notified	3	1	1

NOTIFICATIONS (Continued)	1972	1971	1970
All cases of tuberculosis notified	19	13	15
Number of deaths from pulmonary tuberculosis	2	1	-
Number of deaths from non-pulmonary tuberculosis	1	-	-

## PULMONARY TUBERCULOSIS

NOTIFICATIONS DURING YEAR	1972	1971	1970
Age Group			
5 - 14 years	2	1	-
15 - 24 years	-	1	-
25 - 34 years	2	2	2
35 - 44 years	4	2	2
45 - 54 years	2	2	3
55 - 64 years	3	-	3
65 years and over	3	4	4
	<u>16</u>	<u>12</u>	<u>14</u>

	Pulmonary	Non-Pulmonary
Number of cases treated in hospital	16	3
Number of cases treated at home	-	-

Number of persons resident in the County on the Tuberculosis Register at the end of the year:-

	1972	1971	1970
Pulmonary	232	233	285
Non-Pulmonary	45	47	55

The place of residence of those persons resident in the County as at 31st December, 1972 is shown in the following table:-

	Pulmonary	Non-Pulmonary
Residing in:-		
Brechin	22	9
Carnoustie	22	-
Forfar	39	4
Kirriemuir	18	7
Monifieth	12	1
Montrose	27	7
Landward	92	17

During the year Health Visitors and District Nurses paid visits to the households of those persons. They advised about the care of cases and the prevention of infection and arranged X-rays and attendance at chest clinics for family and other close contacts. They visited defaulters from X-ray sessions and clinics. The District Nurses gave home nursing care when necessary.

## B.C.G. VACCINATION

In November and December 1972 all children born in 1959 were offered B.C.G. vaccination at their schools.



Numbers of children resident in County tested and vaccinated:-

School	Mantoux Tested	Number Negative	Percentage Negative	Number Vaccinated
Forfar Academy	254	238	93.7	228
Montrose Academy	181	159	87.8	150
Brechin High School	146	137	93.8	130
Carnoustie High School	205	191	93.2	184
Webster's High School	114	105	92.1	104
Newtyle School	52	50	96.2	48
Arbroath High School	25	24	96.0	22
Arbroath Academy	39	39	100.0	36
Total	1016	943	92.8	902

The figures shown in the above table for Arbroath Academy and Arbroath High School do not include children resident in the Burgh.

Number of children resident in Arbroath Burgh tested and vaccinated:-

School	Mantoux Tested	Number Negative	Percentage Negative	Number Vaccinated
Arbroath High School	131	122	93.1	116
Arbroath Academy	151	148	98.0	135
Total	282	270	95.7	251

Total number of children given B.C.G. vaccination (County and Arbroath Burgh)

1972	1971	1970
1153	1045	1392

All the children who gave a positive reaction to the Mantoux test attended the nearest Chest Clinic or M.M.R. Unit for chest X-ray. In all cases there was no evidence of active disease.

## MASS MINIATURE RADIOGRAPHY

Mass Miniature Radiography for teachers and other members of school staffs, and for members of the Public Health Department and Social Work Department who come in contact with children, is arranged every third year. This had been done in 1971 so there was no mass chest- X-ray screening in 1972.

Also in connection with the protection of children against tuberculosis the Public Health Department and Social Work Department co-operate to ensure that all Child Minders and Pre-School Play Group Workers have chest X-rays initially and at three-yearly intervals.

## CERVICAL CYTOLOGY

This service continued as in previous years since 1967. The tests are taken by Public Health Department doctors, and the slides are sent for examination to the Cytology Department at Maryfield Hospital, Dundee.

	Number of clinics held	Number of women Attending	Number of positive results
Brechin	6	17	-
Carnoustie	6	49	-
Forfar	9	41	1
Monifieth	4	16	-
Montrose	21	247	2
Total	46	370	3

The number of positive smears was 0.81% of women tested.

	1972	1971	1970
Number of clinics held	46	40	30
Number of women attending	370	367	278
Positive results	3	2	1

During 1972, by arrangement with the Consultant Pathologist at Maryfield Cytology Laboratory, women living in Angus who had had cervical cytology smears taken in 1965 were re-tested either by their own doctors or at the Public Health Clinics. Those done at the Clinics are included in the above figures. By the end of the year arrangements had been completed for similar re-testing of those who had had smears taken in 1966.

## CHIROPODY

Treatment of persons in Old Age Pensioner Age-Group and in Chronically Sick and Disabled Group.

	1972	1971	1970
Number of persons treated	2950	2913	2778
Number of treatments given	12540	11045	11283

During 1972 the County Council increased the staff of four full-time Chiropodists by appointing another who took up duty on 19th June, 1972. The part-time Chiropodist resigned towards the end of the year. They provided the following service:-

	Number of Patients and Place of Treatment				Total
	Clinic	Patients' Own Home	Welfare Homes	Others	
Burgh of Arbroath	486	186	62	-	734
Montrose	157	141	57	-	355
Kirriemuir	81	138	-	-	219
Monifieth	45	59	-	23	127
Carnoustie	37	33	42	-	112
Brechin	103	118	37	-	258
Forfar	197	203	66	25	491
Landward Area	189	423	42	-	654
Total	1295	1301	306	48	2950
Discontinued	108	119	45	10	282
Patients receiving treatment as at 31st December, 1972	1187	1182	261	38	2668

Number of chronically sick and disabled persons included in the above table.

	Males	Females	Total
Living in own home	44	91	135
Living in Welfare Homes	15	33	48
Total	59	124	183

As well as in each of the Burghs, Clinics were held as before in Public Halls at Edzell, Muirhead, Ferryden and Tealing. The Chiropodists also gave treatment at sessions in the duty rooms of the District Nurses' Houses at Letham, Glamis, Hillside, Newtyle and Friockheim.

Regular visits were paid to all the Old Peoples' Welfare Homes in the County and in Arbroath Burgh.

44.1% of patients were treated in their own homes. In the burghs treatment at home is given to those who are not fit to walk to the clinic. In the rural areas home treatment is given because of lack of transport for patients to the nearest clinic. Patients who have no incapacity or transport difficulty are encouraged to attend clinics for treatment.

## HOME HELP SERVICE

This service was established in the County in late 1955 by the Medical Officer of Health and continued to be administered by him. When the Social Work (Scotland) Act 1968 became effective the Public Health Department continued to run the Service although the financial responsibilities were taken over by the Social Work Department. In 1972 after discussions between the Finance Officer, Director of Social Work, and Medical Officer of Health it was decided, with the approval of the Committees concerned, to proceed to phase over the whole Service to the Social Work Department by a gradual process during which the Nursing Superintendent, who was Home Help Organiser, and the Senior Clerkess mainly concerned instructed members of the Social Work Department on the methods, including charging and accounting, by which an efficient service was maintained, and also gave them the benefit of their experience and expertise. All records, forms and accounts were handed over. The Home Help Organiser remained available to give help and advice. The District Nurses, whose diligence and understanding of those benefiting from the service, as well as their knowledge of their districts, had always contributed very largely to the Scheme's success, continued to help the Social Work Department.

The value of the Home Help Service is unquestionable and the work involved is rewarding. The Health Department handed over the service with some regret and only because of approaching re-organisation.

## HEALTH EDUCATION

An account of the formal Health Education in schools by the School Medical Officers and Health Visitors is in the School Health Service Section of this Report. As usual informal Health Education is constantly done by the medical and nursing staff at School Medical Inspection, Clinics and home visits. Throughout the year use was made of leaflets and posters provided by the Scottish Health Education Unit.



A number of health talks were given on request by doctors and nurses to members of Church Guilds, Womans' Institutes etc. Popular topics included family planning and various aspects of child care.

## HANDICAPPED REGISTER AND HANDICAPPED CHILDREN

This is a Register of children from birth up to the age of 16 years who are physically or mentally handicapped. The Register records the handicap and other details including the type of treatment and education or training being given or required. At the end of 1972 there were on the Register 178 children (98 boys and 80 girls) in Angus, excluding those in the Burgh of Arbroath. The Arbroath Handicapped Register is kept by the Arbroath Medical Officer of Health with whom the Angus School Health Service exchanges information, for example in the case of pre-school age children who must be assessed to decide whether they are suitable for ordinary or special education on account of physical or mental disability. There were 34 children (16 boys and 18 girls) on the Arbroath Handicapped Register at the end of 1972.

During the school session ending 31st July, 1972 six boys and four girls between the ages of three and sixteen attended Dundee School for the Deaf. Two boys and one girl were weekly boarders at the Dundee Hostel, the others travelled daily. There were also handicapped pupils at Trefoil School, Edinburgh (1 girl), Linn Moor Residential Occupational Centre, Aberdeenshire (2 boys), Condover Hall, Shrewsbury (1 girl), Stanmore House, Lanark (2 boys and 1 girl), Royal Blind School, Edinburgh (1 girl) and Rudolf Steiner School, Aberdeenshire (2 boys and 1 girl). 1 boy was admitted to Lendrick Moor School in September.

Among handicapped children attending ordinary day schools in Angus were five severely handicapped cases of spina bifida, two boys with considerable residual physical handicap after road accidents and one girl and one boy who are registered as partially sighted.

## HANDICAPPED REGISTER — ANGUS

Number on Register as at 31st December, 1972

## Main Disability by Age and Sex

		Under 1	1 to under 2	2 to under 3	3 to under 4	4 to under 5	5 to under 10	10 to under 15	15 to 16 or school leaving age	Total all ages
Deaf	M	-	-	-	-	-	1	-	-	1
	F	-	-	-	-	-	-	-	-	-
Partial Hearing	M	-	-	-	1	-	1	1	-	3
	F	-	-	-	-	1	2	3	-	6
Blind	M	-	-	1	-	-	-	-	-	1
	F	-	-	-	-	-	-	-	-	-
Partially Sighted	M	-	1	-	-	-	-	2	-	3
	F	-	-	-	-	1	-	-	-	1
Mental defective	M	-	-	-	-	-	1	5	5	11
Educable	F	-	-	-	1	-	4	6	1	12
Mental defective	M	-	-	-	-	-	4	4	1	9
Ineducable	F	-	-	-	-	-	2	5	2	9
Mental defective	M	-	-	-	-	-	-	-	-	-
Not trainable	F	-	-	-	-	-	-	1	-	1
Cerebral palsy (Brain damage)	M	-	-	-	-	2	4	3	-	9
	F	-	-	-	-	-	-	-	1	1
Other Brain Damage	M	-	-	-	-	-	-	-	-	-
	F	-	-	-	1	-	2	1	-	4
Epilepsy	M	-	-	-	-	-	3	5	-	8
	F	-	-	-	1	-	5	3	-	9
Spina Bifida/ Hydrocephalus	M	-	-	1	-	-	1	1	-	3
	F	-	-	-	-	1	2	1	1	5
Other Psychia- tric Condition	M	-	-	-	-	-	1	-	-	1
	F	-	-	-	-	-	-	1	-	1
Deformity of Lower Limbs	M	-	-	-	-	-	-	-	-	-
	F	-	-	1	-	-	1	-	1	3
Paralysis of Limb, back, or trunk	M	-	-	-	-	-	1	-	-	1
	F	-	-	-	-	-	-	-	-	-
Other Ortho- paedic Defect	M	-	-	-	-	1	1	-	-	2
	F	-	-	-	-	1	-	-	-	1
Heart Defect	M	-	-	-	-	-	1	2	-	3
	F	-	1	2	-	1	2	-	-	6
Diabetes	M	-	-	-	-	1	6	7	1	15
	F	-	-	-	-	1	1	4	1	7
Other Metabolic Disease	M	-	-	-	-	-	1	-	-	1
	F	-	-	-	-	1	-	-	-	1
Other Conditions	M	-	2	-	2	6	12	3	2	27
	F	-	1	1	1	-	7	3	-	13
Total	M	-	3	2	3	10	38	33	9	98
	F	-	2	4	4	7	28	28	7	80
Total Both Sexes		-	5	6	7	17	66	61	16	178

## HANDICAPPED REGISTER — ARBROATH

Number on Register as at 31st December, 1972

## Main disability by Age and Sex

		Under 1	1 to under 2	2 to under 3	3 to under 4	4 to under 5	5 to under 10	10 to under 15	15 to 16 or school leaving age	Total all ages
Partial Hearing	M	-	-	-	-	-	2	1	-	3
	F	-	-	-	-	-	-	1	-	1
Partially Sighted	M	-	-	-	-	-	-	-	-	-
	F	-	-	-	1	-	1	1	-	3
Mental defective Educable	M	-	-	-	-	-	-	2	2	4
	F	-	-	-	-	-	-	2	-	2
Mental defective Ineducable	M	-	-	-	-	-	2	1	-	3
	F	-	-	-	-	-	-	-	-	-
Mental defective not trainable	M	-	-	-	-	1	-	-	-	1
	F	-	-	-	-	-	1	-	-	1
Cerebral Palsy (Brain damage)	M	-	-	-	-	-	-	-	-	-
	F	-	-	2	-	-	-	3	-	5
Other Brain Damage	M	-	-	-	-	-	1	-	-	1
	F	-	-	-	-	-	-	-	-	-
Epilepsy	M	-	-	-	-	-	-	1	-	1
	F	-	-	-	-	-	-	-	-	-
Spina Bifida	M	-	-	-	-	-	1	-	-	1
	F	1	1	-	-	-	2	-	-	4
Defective Speech	M	-	-	-	-	-	-	-	-	-
	F	-	-	-	-	-	-	1	-	1
Paralysis of limb, back or trunk	M	-	-	-	-	-	-	-	-	-
	F	-	-	-	-	-	-	1	-	1
Heart	M	-	-	-	-	-	-	1	-	1
	F	-	-	-	-	-	-	-	-	-
Cleft Palate	M	-	-	1	-	-	-	-	-	1
	F	-	-	-	-	-	-	-	-	-
Total	M	-	-	1	-	1	6	6	2	16
	F	1	1	2	1	-	4	9	-	18
Total Both Sexes		1	1	3	1	1	10	15	2	34

## COMMUNICABLE DISEASES

### NOTIFIABLE DISEASES

172 cases of notifiable infectious diseases were recorded in 1972.

Disease	1972	1971	1970
Cerebro-Spinal Fever	5	8	2
Dysentery	31	44	50
Erysipelas	3	6	4
Food Poisoning	2	4	19
Hepatitis, Viral Infectious	50	38	28
Influenzal Pneumonia	13	1	9
Malaria	2	1	2
Measles	28	85	431
Pneumonia, Acute Primary	23	21	37
Scarlet Fever	13	28	49
Whooping Cough	2	44	30
Total	172	280	661

The 5 cases of cerebro-spinal fever were unrelated, although 3 of them occurred in a small village in the Landward Area between April and August. There was one death, a 2 year old boy living in a burgh.

The distribution of the dysentery cases was Brechin 2, Forfar 2, Monifieth 2, Kirriemuir 1, Landward 24. Of the 24 Landward cases 18 occurred in Strathmartine Hospital, a hospital for mental defectives. Of the other 6 Landward cases 4 were in one family. The remaining cases were sporadic.

The distribution of viral hepatitis was Forfar 12, Brechin 3, Monifieth 2, Kirriemuir 1, Landward 32. Of the Landward cases 3 were in Letham at the beginning of the year and were a continuation of the outbreak (6 cases) mentioned in last year's report. 3 related cases were in Edzell. There was no large single outbreak among the 32 Landward cases. On investigation several of the apparently scattered cases were found to be in friends or relatives. Of the 50 cases, 31 were adults, 17 were children of school age and 2 were pre-school children.

## NON NOTIFIABLE COMMUNICABLE DISEASES

### BRUCELLOSIS

#### BRUCELLOSIS IN MILK

During 1972 the Bacteriology Laboratory at Dundee University continued on request to test milk samples by the culture test. A Milk Ring Test was done on samples from all dairy herds in Angus and when this was positive a Milk Culture Test was carried out to demonstrate the presence of *Brucella* in the milk. Only 4 herds which had not previously given a positive milk culture test now did so. The milk from all four herds was being collected by the Milk Marketing Board and was being pasteurised, as throughout 1972 the Board pasteurised before sale to the public all milk collected which did not come from an Accredited Herd. Of the 4 herds 2 became Accredited Herds later in the year.

Although Angus is not an Eradication Area and is not expected to be in the near future, all milk sold to the public in Angus is non-infective and there is continuous monitoring to ensure that this standard is maintained.

In December, 1972 the Scottish Milk Marketing Board gave figures showing that there were 55 Accredited Dairy Herds in Angus, which is 61 per cent of all Dairy Herds in the County. The average percentage of Accredited Herds in the Scottish Milk Marketing Board Area was 60.6 per cent, the highest percentage in any county being 93.6 per cent and the lowest 14.3 per cent.

#### BRUCELLOSIS IN HUMANS

During 1972 the Medical Officer of Health was informed of only 5 cases of human brucellosis not previously known to him. Of these 3 were farmers and 1 a farm grieve. All had evidently had the infection for some time and suffered relapses. The fifth was a retired man who lives in a burgh and has no connection with agriculture.

#### VENEREAL DISEASE

	Acquired Syphilis	Congenital Syphilis	Gonorrhoea of Genital Tract	Other Venereal Conditions	Total
1967	-	-	8	24	32
1968	-	-	18	34	52
1969	-	-	15	18	33
1970	1	-	18	35	54
1971	5	-	26	65	96
1972	1	-	16	74	91

#### MENTAL HEALTH

There were 16 mental defectives under Statutory Guardianship, 7 of these residing in Local Authority Welfare Homes. The remainder live in their own homes, under related guardianship. Home visits were paid to all these people by the Medical Staff, and others were visited for ascertainment. 46 Visits were paid by the Medical Staff and 550 visits by the Nursing Staff.

During the year there were 13 Clinic Sessions held in the Burgh Clinics in which 55 mental defectives were seen at 73 consultations by a Specialist.

#### SOCIAL WORK DEPARTMENT HOMES FOR THE ELDERLY

The Medical Staff visited and assessed 43 persons who wished to be admitted to one of the above homes.

#### MEDICAL EXAMINATIONS FOR SUPERANNUATION PURPOSES

In 1972 the Medical Staff examined 149 persons for their suitability to be accepted for the Superannuation Scheme.

#### HOME VISITS TO APPLICANTS FOR RE-HOUSING ON MEDICAL GROUNDS

In 1972 the Medical Staff visited at home 212 persons to assess their need for re-housing for medical reasons. The distribution of visits was Brechin 38, Carnoustie 26, Forfar 59, Montrose 85 and the Landward Area 4.



## FOOD SUPPLIES

Details of the work done in relation to the administration of the various Acts, Orders and Bye-Laws will be found in the report by the County Sanitary Inspector.

## PORT HEALTH ADMINISTRATION

During the year 204 vessels arrived at Montrose harbour from foreign ports with cargoes of:- General cargo 76, Paper 33, Fertilizer 31, Wood pulp 30, In ballast 4, Ammonium nitrate 3, Pumice 3, Timber 2, Onions, 2, Fish 2, Potatoes 2, Rubber 2, Slag 1, Others 13.

## FACTORIES ACT 1961

This Act is administered by the Town Council of the Burghs and the County Council in respect of the landward area. The sections of the Act which concern local authorities are those dealing with cleanliness, overcrowding, temperature and ventilation, drainage of floor area and sanitary conveniences.

In regard to these matters the inspections are carried out by the Burgh Surveyor/ Sanitary Inspectors in the Burghs, and in the landward area by the County Sanitary Staff.

Annually the Medical Officer of Health is required to make a return regarding the number of factories in his area, visits paid and defects noted and how remedied. The following is the return for 1972 and in respect of the 7 areas under my jurisdiction.

Prescribed Particulars of the Administration of the Factories Act, 1961.

### FACTORIES IN EACH AREA (NO. OF VISITS PAID IN 1972 IN BRACKETS)

	Brechin	Carnoustie	Forfar	Kirriemuir	Monifieth	Montrose	Landward
1. Factories in which sections 1, 2, 3, 4 & 6 are enforced by Local Authority	14(11)	11 (7)	3 (3)	24(11)	12(3)	86(19)	114(73)
2. Factories not included in (1) in which section 7 is enforced by the Local Authority	42(20)	23 (15)	87(39)	15 (7)	- ( - )	- ( - )	- ( - )
3. Other premises in which section 7 is enforced by the Local Authority	2 (2)	- ( - )	- ( - )	- ( - )	- ( - )	- ( - )	1 (5)
Total	58 (33)	34(22)	90(42)	39(18)	12 (3)	86(19)	115(78)

No defects were found in the Burghs of Carnoustie, Forfar and Monifieth.

In the Burgh of Kirriemuir 2 defects were found (1 want of cleanliness and 1 unsuitable or defective sanitary conveniences).

In the Burgh of Brechin 1 defect was found (unsuitable or defective sanitary convenience).

In the Burgh of Montrose 7 defects were found (6 want of cleanliness and 1 insufficient sanitary conveniences).

In the landward Area 13 defects were found (1 want of cleanliness and 12 unsuitable or defective sanitary conveniences).

## BURGH OF BRECHIN

For the year 1972 the Registrar General has estimated the mid-year population for the Burgh to be 6685 which compares with 6702 in the 1971 census year and with 6735 estimated in 1970. 87 live births were allocated to the burgh. There were 9 illegitimate births and no still births.

88 marriages were registered.

There were 105 deaths corrected for residence. The chief causes of death were Heart Disease 32, Cancer 22, (lung cancer 3), Cerebro-vascular Disease 18. Of the 105 deaths, 87 persons were over the age of 65 years. There was 1 infant death (under 1 year). There was 1 death from a motor vehicle accident and 2 deaths from home accidents.

During the year there were 12 cases of infectious diseases notified and confirmed:— Pulmonary tuberculosis 4, Non-pulmonary tuberculosis 1, Viral Infectious Hepatitis 3, Scarlet Fever 2, Dysentery 2.

## BURGH OF CARNOUSTIE

For the year 1972 the Registrar General has estimated the mid-year population for the Burgh to be 6568 which compares with 6288 in the 1971 census year and with 5753 estimated in 1970.

90 live births were allocated to the Burgh. There were 4 illegitimate births and no still births.

37 marriages were registered.

There were 87 deaths corrected for residence. The chief causes of death were Heart Disease 45, Cancer 17 (lung cancer 4), Cerebro-vascular Disease 6. Of the 87 deaths 70 persons were over the age of 65. There was 1 infant death (under 1 year). There were 2 deaths from motor vehicle accidents and 1 death from home accident.

During the year there were 18 cases of infectious diseases notified and confirmed:— Pulmonary tuberculosis 1, Acute primary pneumonia 4, Acute influenzal pneumonia 1, Scarlet Fever 1, Measles 11.

## BURGH OF FORFAR

For the year 1972 the Registrar General has estimated the mid-year population of the Burgh to be 10897 which compares with 10651 in the 1971 census year and with 10066 estimated in 1970.

173 live births were allocated to the Burgh. There were 9 illegitimate births and no still births.

105 marriages were registered.

There were 152 deaths corrected for residence. The Chief causes of death were Heart Disease 70, Cancer 28, (lung cancer 5), Cerebro-vascular Disease 21. Of the 152 deaths 112 persons were over the age of 65. There were 7 infant deaths (under 1 year). There were 3 deaths from motor vehicle accidents.

During the year there were 35 cases of infectious diseases notified and confirmed:— Pulmonary tuberculosis 3, Viral Infectious Hepatitis 12, Acute primary pneumonia 3, Acute influenzal pneumonia 7, Scarlet Fever 6, Dysentery 2, Erysipelas 1, Measles 1.

## BURGH OF KIRRIEMUIR

For the year 1972 the Registrar General has estimated the mid-year population of the Burgh to be 4230 which compares with 4192 in the 1971 census year and 4107 estimated in 1970.

63 live births were allocated to the Burgh. There were 2 illegitimate births and 1 still birth.

35 marriages were registered.

There were 80 deaths corrected for residence. The chief causes of death were Heart Disease 30, Cancer 21 (lung cancer 3), Cerebro-vascular Disease 11. Of the 80 deaths 69 persons were over the age of 65. There was 1 infant death (under 1 year). There was 1 death from motor vehicle accident and 1 death from home accident.

During the year there were 9 cases of infectious diseases notified and confirmed:- Pulmonary tuberculosis 3, Viral Infectious Hepatitis 1, Acute primary pneumonia 2, Dysentery 1, Malaria 1, Measles 1.

## BURGH OF MONIFIETH

For the year 1972 the Registrar General has estimated the mid-year population for the Burgh to be 6832 which compares with 6300 in the 1971 census year and with 5541 estimated in 1970.

132 live births were allocated to the Burgh. There were 2 illegitimate births and 1 still birth.

30 marriages were registered.

There were 67 deaths corrected for residence. The chief causes of death were Heart Disease 21, Cancer 13 (lung cancer 3), Cerebro-vascular disease 7. There were no infant deaths (under 1 year). Of the 67 deaths 49 persons were over the age of 65. There were 3 deaths from home accidents.

During the year there were 22 cases of infectious diseases notified and confirmed:- Pulmonary tuberculosis 1, Viral Infectious Hepatitis 2, Acute influenzal pneumonia 5, Cerebro-spinal fever 1, Erysipelas 1, Malaria 1, Dysentery 2, Measles 8, Whooping Cough 1.

## BURGH OF MONTROSE

For the year 1972 the Registrar General has estimated the mid-year population for the Burgh to be 10096 which compares with 10091 in the 1971 census year and 10117 estimated in 1970.

143 live births were allocated to the Burgh. There were 9 illegitimate births and 2 still births.

101 marriages were registered.

There were 160 deaths corrected for residence. The chief causes of death were Heart Disease 62, Cancer 36 (lung cancer 9), Cerebro-vascular Disease 22. There were 2 infant deaths (under 1 year). Of the 160 deaths 126 persons were over the age of 65. There were 2 deaths from motor vehicle accidents.

There were no notifications of notifiable infectious diseases.



## SCHOOL MEDICAL SERVICE

### Report for the Year ending 31st July, 1972

#### GENERAL STATISTICS

The population of the area of the Education Authority including the Large Burgh of Arbroath (22,764) at 31st December, 1971 was 97,200.

#### NUMBER OF SCHOOLS

Rural Primary Schools	...	...	...	...	57
Burgh Primary Schools	...	...	...	...	21
Six-Year Comprehensive	...	...	...	...	7
Two-Year Comprehensive	...	...	...	...	1
Junior Secondary	...	...	...	...	1
Special Schools (Junior Occupation Centres)			...	...	2
Special Classes in Ordinary Schools		...	...	...	8
Hospital Schools	...	...	...	...	3

#### A. ORGANISATION AND ADMINISTRATION

There has been no change in the organisation and administration of the Service since it was last detailed.

All Schools in the County were visited for routine Medical Inspection of Children in certain age-groups as required by the Scottish Home and Health Department.

This session the children given Systematic Medical Inspection were:-

- (a) Entrants - i.e. all children starting school (at the age of five approximately)
- (b) School Leavers - i.e. all children born during the year, 1958 (approximately 13 years old at the time of inspection).

In addition to these examinations, children who had previously missed examination with their age-groups, because of absence or because of moving from another area, were also given a full medical.

Children of all ages who had been found at a previous examination to be suffering from defects were examined in respect of those defects. The vision and hearing of all children born in 1964 and 1962 were tested.

Special visits were paid to schools for assessment examination of defective children who might require special education etc. Children on whose behalf requests for transport to school were made by their parents or guardians to the Director of Education were also seen. Examination of children for other specific purposes was undertaken, e.g. because of prolonged or frequent absence from school without apparent reason. A number of children were seen at special visits at the request of head teachers. In most of these cases a visit or visits to the homes were necessary and many of the preliminary examinations were done in the pupils' homes.

#### COLOUR BLINDNESS

All thirteen year old children were, as in previous years, tested for colour blindness using Ishihara Plates. The Headmasters were notified of children who were colour blind, and the condition explained to the colour blind pupil, including an explanation that he would not be accepted in certain occupations.

## ENTRANTS' VISION TESTING

This continues to be done as detailed in previous reports. The importance of this test is to detect visual defects at an early age, as certain defects are not amenable to treatment later, and also because defective vision may be a handicap to scholastic progress.

The number of parents attending the medical examinations continues to increase especially those of children in the entrant age-group. In many cases, this contact with parent is invaluable and often serves as a continuous link with the pre-school child welfare clinic services supplied locally. Good liaison with teachers continues in all schools resulting in close co-operation between teaching and medical staff.

## B.C.G. VACCINATION

In November and December, 1971, B.C.G. vaccination against tuberculosis was offered to all children born in 1958. As B.C.G. vaccination is a Local Health Authority function the B.C.G. vaccination of Arbroath Burgh children is undertaken by the Arbroath Medical Officer of Health. In all, 783 children were skin-tested, and 761 gave a negative reaction, of whom 724 were given B.C.G. vaccination. X-ray examinations of the chest were arranged for children who showed a positive reaction. Details of the Vaccination Scheme are included in the Annual Report of the Medical Officer of Health for the year 1971.

## IMMUNISATION

This is also a function of the County Council as Local Health Authority, but use is made of the School Medical Service to offer immunisation through the schools. Details of these immunisations are given in the Annual Report of the Medical Officer of Health.

In March 1972, children in primary I of the schools of Montrose and in primary I and II of the schools of Brechin, Carnoustie, Forfar, Kirriemuir and Monifieth were offered measles vaccination. After receiving parental consent, the vaccine was administered to those children who had not yet been vaccinated or who had not yet had the disease.

A programme of vaccination against Rubella (German Measles) was arranged for girls born in 1960 whose parents gave consent.

In order that children leaving school might have better protection against tetanus and poliomyelitis boys and girls born in 1957 were offered and, those whose parents accepted, given booster immunisation against both these diseases.

## B. SANITARY CONDITIONS AND BUILDINGS

When each school was visited for the Annual Systematic Medical Inspection of the pupils, the buildings were seen and any major defects discussed with the Head Teacher.

## C. MINOR AILMENTS CLINICS

Clinics were held by the Medical Staff weekly in the Burghs of Forfar, Arbroath, Montrose and Brechin. The Medical Officers saw children at the request of their parents and teachers, as well as a number of children who had been found at School Medical Inspection to require further investigation or surveillance. The majority of the children were accompanied by the parents. Treatment in some cases was given for Minor Ailments, especially those of a contagious nature. These Clinics were also used for the medical assessment of pre-school children who might require special education.

## TREATMENT OF MINOR AILMENTS, ETC.

The following table gives details of the cases attending the clinics held by School Medical Officers in Arbroath, Forfar, Brechin and Montrose and of those treated by the nursing staff in the rural area.

	BURGH		RURAL	
	No. of Cases	No. of Treatments	No. of Cases	No. of Treatments
Special Cases, Minor Ailments, etc.	56	37	101	189
Skin Conditions:-				
Ringworm of Scalp	-	-	1	-
Ringworm of Face	1	-	4	9
Ringworm of Body	1	-	1	1
Scabies	66	44	30	40
Impetigo	28	6	8	30
Others	73	72	7	29
	225	159	152	298

## D. NURSERY SCHOOLS

There are no Nursery Schools in the County. Private play-groups are the responsibility of the Social Work Department.

## E. PERSONAL HYGIENE

School nurses and Health Visitors continue to visit schools monthly regarding cleanliness of school children. Where necessary home visits are carried out on children found to be verminous. Special visitations are also paid in connection with certain contagious diseases. See table.

## WORK DONE BY NURSING STAFF IN SCHOOL MEDICAL SERVICE

	No. of Children Seen	No. of Visits to Schools	Unsatis- factory Cleanliness Bad Clothing & Footwear	Vermin Body Head	Nits	Plantar Warts	Ringworm	Scabies	
Burgh Schools	42,061	702	53	-	21	149	158	3	30
Rural Schools	16,181	423	21	-	31	37	21	2	65
	58,242	1125	74	-	52	186	179	5	95

## NUMBER OF NOTICES SENT TO PARENTS

	Vermin Body	Head	Nits	Unsatisfactory Cleanliness, Bad Clothing & Footwear	Scabies	Home Visits
Burgh Schools	-	40	62	6	16	1250
Rural Schools	-	16	21	-	10	335
	-	56	83	6	26	1585

## F. HEALTH EDUCATION

Because of absence from work of one of the members of staff due to illness, it was found necessary to curtail considerably the formal programme of Health Education lectures in schools.

The Depute Nursing Superintendent lectured to children in the senior schools in Arbroath on foot care and general hygiene.

During the session, the Medical Officers and Health Visitors took every opportunity of furthering the Health Education of children of all ages.

## G. RESEARCH

No research programmes were carried out this year.

With the passing of the Education (Milk) Act, 1971, the provision of free milk to school children was restricted to children in special classes and to those under seven years of age, unless the child was certified (by the School Medical Officer) to be requiring the continuation of free milk. Accordingly, a survey of all primary children concerned was made and to parents of those children considered to be requiring free milk for health reasons, a certificate was issued which the parent was required to take to the appropriate headmaster. The supply of free milk was subsequently arranged.

## COMMITTEE ON MEDICAL ASPECTS OF FOOD POLICY (COMA)

In October, 1971, the Principal School Medical Officer was asked to help through the School Health Service in an important National Nutritional Survey of School Children. A Sub-Committee had been set up in 1970 by the Committee on Medical Aspects of Food Policy (COMA) "to advise COMA of the steps that should be taken to detect any effects upon the nutritional state of the community of recently announced changes in the arrangements for the provision of welfare milk, school milk and school meals, at a time when any harmful effects are likely to be mild and reversible". One of the surveillance measures proposed and agreed by COMA was a study, in collaboration with the School Health Service, of growth rate in school children. In certain selected areas, 250-300 school children aged 5-10 years would be measured annually over a period of 5 or more years. Height, weight and skin fold thickness would be measured by school nurses and each parent would be asked to complete a simple questionnaire. One of the sample areas considered for Scotland is Arbroath and, in fact, the school chosen is Warddykes. Two school nurses are to attend a training course at St. Thomas's Hospital Medical School, London since this survey will begin during the next school session.

## H. SPECIALIST SERVICE

Specialist Clinics were held in the Burghs of Forfar, Arbroath, Montrose and Brechin for Ophthalmic, Orthopaedic and Mental Conditions. The specialists at these clinics were provided by the Eastern Regional Hospital Board and the clinics were organised by the County Council's Medical Staff. Defects of the ear, nose and throat were referred to the Specialists at the Out Patients' Departments at Forfar, Arbroath and Montrose Infirmarys and Stracathro Hospital. Children with eye defects living near Dundee were referred to the School Eye Clinics held at Dundee Eye Institution for Angus children, and those living near Dundee with ear, nose and throat defects were seen at Dundee Royal Infirmary. Children throughout the County were also referred to the Child Psychiatrist, Dundee Royal Infirmary, when necessary.



Children who were found to be deaf or were suspected of being deaf were referred to the Speech and Hearing Assessment Clinic at Dundee Royal Infirmary.

## DETAILS OF CLINICS

### EYE CLINICS

These were held as follows:-

Arbroath	- Public Health Clinic, 7 Hill Street	Two or three times a week as required, either at 9.30 a.m. or in the afternoon.
Brechin	- Damacre School Clinic	Thursday at 9.30 a.m. as required.
Dundee	- Dundee Eye Institution	One or two clinics a month as required, on Thursday at 9.30 a.m.
Forfar	- Ravenswood Clinic	Once or twice a week as required either at 9.30 a.m. or 1.45 p.m.
Montrose	- Esk House Clinic	Two or three times a month as required, either at 9.30 a.m. or 1.45 p.m.

As mentioned earlier in this report these clinics are staffed by the Eye Specialists provided by the Eastern Regional Hospital Board.

The following table gives details of children referred during the year:-

No. of appointments made	...	...	...	3023
No. of absentees	...	...	...	565
No. of examinations carried out	...	...	...	2458
No. of children called to clinics	...	...	...	1620
No. of absentees	...	...	...	119
No. of children in attendance at clinics	...	...	...	1501
No. of children referred from these clinics for hospital and other treatment	...	...	...	43
No. of children for operation	...	...	...	11

The number of absentees included those children whose parents elected to take them to their family doctors or arrange privately. Children who did not attend because of illness or other unavoidable circumstances were given a further appointment.

### EAR, NOSE & THROAT CLINICS

Cases were referred to the Ear, Nose and Throat Consultants at Forfar, Dundee, Montrose and Arbroath Infirmarys and at Stracathro Hospital. The cases were called in by appointment.

Number of children whose parents were notified of child's defect of the Ear, Nose and Throat	...	...	11
Number referred to Consultants	...	...	7
Number given treatment at Hospital	...	...	6

While the parents were notified of the child's defect they were asked to consult their family doctor. They then accepted the School Medical Service's offer of a hospital appointment or had other arrangements made by their family doctor.

### SPEECH AND HEARING ASSESSMENT CLINIC

This clinic is held by an Ear, Nose and Throat Specialist at Dundee Royal Infirmary for children in the Region. Children are referred for the assessment of their hearing

and for treatment of any disability found. Whether the child can be educated at an ordinary school or at a School for the Deaf (usually Dundee School for the Deaf) is considered by the Specialist and discussed with a panel, which includes one of the doctors from the School Medical Service and the Educational Psychologist. The advice of other Specialists is obtained when required. Old cases are also periodically reviewed in the same way.

Four new cases were seen during the school year.

## ORTHOPAEDIC CLINICS

These Specialist Clinics were held at the Clinic, 7 Hill Street, Arbroath and Ravenswood, Forfar. All cases were seen by appointment. The Arbroath Clinics were held on one day a week on the first, third and fourth weeks of each month at 9.30 a.m. The Forfar Clinics were held at the same time on the second and fifth (when five a month) Tuesday of each month. Children residing in the Montrose and Brechin areas were called to the local Infirmary. Those living in the Dundee area were seen at Kemback Street Clinic. Those living near the Perthshire boundary were seen at Clinics in Coupar Angus or Blairgowrie, by the arrangement with the Perth Hospital Group.

In addition to the Specialist Clinics, physiotherapy treatment sessions were held weekly in Arbroath Clinic on Tuesday afternoons and in Forfar on Wednesday afternoons.

	Arbroath/Forfar		Dundee	Perth Hospitals	Brechin & Montrose	Total
Cases seen by Consultant	472	320	20	9	41/46	908
Cases recommended for Physiotherapy	85	58	7	1	2	153
Cases recommended for Hospital Treatment	4	6	9	-	3	22
Cases admitted to Hospital	5	3	-	1	-	9

## MENTAL DEFICIENCY

Clinics for mental defectives were held at one of the following clinics as required:-

Arbroath	-	7 Hill Street
Brechin	-	Damacre School Clinic
Carnoustie	-	126 High Street
Forfar	-	Ravenswood Clinic
Kirriemuir	-	Kirriemuir Day Centre
Monifieth	-	Seaview Clinic
Montrose	-	Esk House Clinic

During the year 14 children of school age were examined at these clinics by a Specialist in Mental Deficiency from Strathmartine Hospital.

## EDUCATIONAL PSYCHOLOGIST

During the session 12 new cases were referred by the School Medical Service. One other case was referred to a Child Psychiatrist.

## SPEECH THERAPIST

During the session 29 new cases were referred by the School Medical Service. As the County had no Speech Therapist during the session the children's names were put on the waiting list. The total number of children found at School Medical Inspection to require Speech Therapy, including these new cases was 121. 3 cases who were considered particularly urgent were referred to Miss Miller, Arbroath Infirmary.

## REFERRAL TO GENERAL PRACTITIONERS

During the session 40 children were referred by the School Medical Service to their family doctors for treatment.

## SYSTEM AND EXTENT OF DENTAL INSPECTION AND TREATMENT:—

The Chief Dental Officer, Mr. D.N. Anderson, reports on the Dental Service as follows:-

### SESSION 1971 - 72

I herewith submit the Report of the Dental Department for 1971-72.

Near the end of the school year there was an improvement on the staffing position, a Dental Officer and a Dental Attendant being appointed to the Montrose area. This meant that there was now a full Dental establishment of six Dental Officers and Dental Attendants.

Dental equipment was purchased during the school year for Montrose Esk House Clinic as part of a yearly scheme for improving the standard of equipment in Burgh Dental Clinics.

Dental Health Education was given as in previous years by the Dental Officers during routine dental inspection at schools and by chairside instruction to pupils attending for treatment. The issue of Dental Health Packs to all Primary One New Entrants was continued. This is a very good method of making young children and their parents aware of the necessity of maintaining good oral hygiene.

Two of the Dental Officers and myself attended Postgraduate Courses in Dental subjects. Permission from the Public Health Committee to attend these courses was appreciated by the Dental Staff as it enables them to keep abreast with current methods of treatment.

Very few ante-natal and post-natal maternity patients are treated by the Local Authority Dental Officers as free treatment can be obtained under the Health Service from General Practitioners. Health Visitors have been asked during their visit to encourage mothers to arrange for dental inspection of their pre-school children either by the Health Service or Local Authority Dentists, in order to reduce the large number of children who attend school for the first time with many of their temporary teeth already missing or beyond conservation.

In addition to the treatment of school children, maternity and child welfare patients, treatment was given to pupils attending Senior Occupation Centres at Montrose and Kirriemuir.

While six Dental Officers should be able to provide the conservative treatment for Angus school children it will be necessary in the future to appoint additional staff to carry out a preventative dental treatment service.

The statistics of treatment are appended and show that 14,616 children were examined, 8,365 had dental defects and 3,362 were treated by the Local Authority Dental Officers.

(Signed) D. N. ANDERSON,  
Chief Dental Officer.



## DENTAL STATISTICS 1971 - 72

	Number of Schools	Number Inspected and treated
Rural Primary Schools	57	57
Burgh Primary Schools	21	21
Secondary Schools	7	6
Junior Secondary School	1	1
Two Year Comprehensive School	1	1

## SYSTEMATIC INSPECTION AND TREATMENT

(1) Number of children and ages inspected by Dental Officers

Age	Systematic Inspection	Emergency	Total
Pre-School	34	32	66
5	1489	40	1529
6	1505	22	1527
7	1589	27	1616
8	1529	23	1552
9	1465	28	1493
10	1447	18	1465
11	1325	6	1331
12	956	14	970
13	968	12	980
14	954	12	966
15	730	11	741
16	427	1	428
17	232	0	232
	14616	214	14830

(2) Number of Children found to require Treatment	...	8365
Emergency	...	214
(3) Number of Children actually treated	...	3362
Emergency	...	214
(4) Number of attendances for treatment	...	12690
Emergency	...	214
(5) Number of Fillings in Permanent Teeth	...	10124
Number of Fillings in Temporary Teeth	...	1545
(6) Number of Permanent Extractions	...	643
Number of Temporary Extractions	...	2150
(7) Number of Cases of General Anaesthetic	...	14
(8) Number of other operations in Permanent Teeth	...	1674
Number of other operations in Temporary Teeth	...	1128

(9) Number of Dentures supplied	...	Part	30
	...	Full	1
Number of Dentures repaired	...	...	3
Number of Crowns fitted	...	...	6
Number of Inlays inserted	...	...	3
(10) Ante-and Post Natal Cases			
Number of Cases Treated	...	...	11
Number of Dentures supplied	...	...	0
Number of Fillings in Permanent Teeth		...	41
Number of Extractions of Permanent Teeth		..	4
Number of Other Operations in Permanent Teeth	...		6
Number of Sessions	...	...	6
(11) Pre-School Cases			
Number of Cases Treated	...	...	66
Number of Fillings in Temporary Teeth		...	64
Number of Extractions of Temporary Teeth		...	32
Number of Other Operations in Temporary Teeth	...		20
Number of Cases of General Anaesthetic		...	4
Number of Sessions	...	...	14
(12) Orthodontic Treatment			
Cases treated by School Dental Officers			
(1) Number of cases continuing from previous year	...		129
(2) Number of New cases	...	...	90
(3) Number of Cases completed	...	...	73
(4) Number of Cases discontinued	...	...	10
(5) Number of Cases continuing at end of year	...		134
(6) Number of Attendances for treatment		...	1543
(7) Number of Attendances to see Orthodontic Consultant			112
Details of Treatment			
(1) Number of Appliances inserted	...	...	135
repaired	...	...	10
(2) Number of Extractions for Orthodontic purposes			
(a) Permanent Teeth	...	...	173
(b) Temporary Teeth	...	...	88
(3) Number of X-rays for Orthodontic Purposes		...	295
(13) Senior Occupation Centres			
Number of Patients treated	...	...	24
Number of Fillings in Permanent Teeth		...	24
Number of Extractions of Permanent Teeth		...	24
Number of Other Operations in Permanent Teeth	...		34
Number of Full Dentures supplied	...	...	13
Number of Part Dentures supplied	...	...	1
Number of Sessions	...	...	26
(14) Sessions			
Number of Half-days devoted to Inspection	...		187
Number of Half-days devoted to Treatment	...		1961
Number of Half-days lost due to Illness	...		59½
Number of Half-days devoted to Orthodontics	...		126½
Number of Half-days devoted to Administration, etc.	...		64
Number of Half-days devoted to Dental Health Education			26½
Number of Half-days devoted to Maternity & Child Welfare			20

# SCHOOL HEALTH SERVICE

## MEDICAL EXAMINATIONS BY EACH EDUCATION AUTHORITY

Local Authority	ENTRANTS				LEAVERS			
	No. of Examinations		No. with Defects		Percentage with Defects		No. of Examinations	
	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls
Aberdeen Burgh	1,359	1,313	795	691	58.50	52.63	-	-
Dundee	1,260	1,298	550	548	43.65	42.22	1,439	1,344
Edinburgh	2,213	2,181	1,164	994	52.60	45.58	2,420	2,529
Glasgow	6,304	6,207	3,637	3,489	57.69	56.21	6,863	6,973
Aberdeen County	1,168	1,095	758	633	64.90	57.81	-	-
Angus	792	668	449	355	56.69	53.14	660	692
Argyll	448	396	232	180	51.79	45.45	352	339
Ayr County	3,057	2,997	1,773	1,568	58.00	52.32	2,496	2,523
Banff	369	324	240	167	65.04	51.54	371	347
Berwick	184	162	84	59	45.65	36.42	151	169
Bute	97	97	54	35	55.67	36.08	82	93
Caithness	266	257	93	95	34.96	36.96	221	260
Clackmannan	471	424	224	157	47.56	37.03	338	313
Dumfries County	701	686	442	381	63.05	55.54	602	616
Dunbarton	2,457	2,304	1,202	994	48.92	43.14	1,824	1,869
East Lothian	488	477	289	263	59.22	55.14	448	409
Fife	2,399	2,292	1,301	1,046	54.23	45.64	1,445	1,767
Inverness County	719	739	390	366	54.24	49.53	683	705
Kincardine	189	163	39	29	20.63	17.79	190	149
Kirkcudbright	263	254	127	85	48.29	33.46	189	191
Lanark	5,399	5,164	3,038	2,707	56.27	52.42	4,545	3,952
Midlothian	1,326	1,194	673	545	50.75	45.64	970	1,033
Moray and Nairn	559	514	251	209	44.90	40.66	422	431
Orkney	119	125	61	59	51.26	47.20	102	122
Peebles	104	90	63	46	60.58	51.11	78	79
Perth and Kinross	1,027	936	538	402	52.39	42.95	898	847
Renfrew	3,346	3,245	2,132	1,868	63.72	57.57	2,904	2,862
Ross and Cromarty	469	423	283	277	60.34	65.48	454	469
Roxburgh	301	312	179	157	59.47	50.32	274	235
Selkirk	131	126	40	30	30.53	23.81	198	163
Stirling County	1,499	1,387	911	801	60.77	57.75	1,046	1,005
Sutherland	115	108	66	76	57.39	70.37	110	111
West Lothian	1,018	987	610	563	59.92	57.04	698	834
Wigtown	239	213	152	119	63.60	55.87	245	233
Zetland	67	44	22	8	32.84	18.18	96	75
Scotland	40,923	39,202	22,862	20,002	55.87	51.02	33,814	33,739
							15,713	14,962

Local Authority

YEAR 1971/72

**SCHOOL HEALTH SERVICE**

Rates of Defects found per 100,000 Children Examined

**ANGUS**

Defect	ENTRANTS		LEAVERS	
	Boys	Girls	Boys	Girls
Warts and Verrucae	1,136	1,048	2,879	3,035
Athlete's Foot	-	-	455	289
Pediculosis	-	150	-	145
Scabies	-	-	455	145
Other Infections	379	449	-	578
Neoplasms (including naevus)	253	449	1,061	289
Diabetes	-	-	455	145
Underweight	505	299	303	-
Obesity	505	2,096	3,182	5,925
Other Endocrine, Nutritional, Metabolic Disorder	253	150	152	-
Anaemia and other Blood Disorders	-	-	152	-
Speech Disorder	5,177	1,647	152	145
Enuresis etc.	1,515	1,796	758	289
Behaviour Disorder	126	449	-	-
Borderline Mental Retardation	-	-	455	289
Mild Mental Retardation	126	-	152	-
Moderate Mental Retardation	126	-	-	145
Epilepsy	126	150	606	434
Other Diseases of Nervous System (including Cerebral Palsy)	505	-	152	-
Inflammatory Condition of Eye (including stye)	253	449	606	145
Refractive error	6,187	6,138	11,515	14,162
Strabismus	1,641	2,545	758	867
Colour Blindness	126	-	4,697	-
Blindness of One Eye	-	-	152	145
Other Eye Conditions	-	-	303	145
Inflammatory Condition of Ear	758	449	-	145
Wax in Ear	505	599	-	-
Other Conditions affecting Ear	-	-	-	145
Deafness in One Ear	126	-	-	145
Impaired Hearing One or Both Ears	1,894	1,497	1,212	1,156
Chilblains	253	-	-	289
Organic Disease of Heart and Blood Vessels	-	-	-	145
Asthma	1,768	1,048	2,576	1,445
Enlarged Tonsils	14,646	16,467	4,394	4,769
Hay Fever	126	-	303	145
Other diseases of Respiratory System (including common cold and bronchitis)	8,207	7,784	1,818	2,168
Dental Causes	4,419	5,240	1,667	1,301
Other diseases of mouth	379	299	152	145
Kidney disease	-	150	-	289
Diseases of Generative Organs	-	150	-	-
Infection of skin (including boils)	-	150	-	145
Eczema	1,263	1,048	303	289
Acne	-	-	909	1,590
Other diseases of skin (including corns and urticaria)	1,136	1,647	1,667	2,168
Osteochondrosis	126	-	455	-

Defect	ENTRANTS		LEAVERS	
	Boys	Girls	Boys	Girls
Spinal Curvature	126	-	606	145
Pes Planus	6,692	5,090	4,545	2,890
Hallux Valgus	126	-	-	289
Other minor deformities (including Knock Knees)	8,207	8,982	3,636	6,503
Other orthopaedic conditions (including Wryneck)	126	-	152	145
Congenital Anomalies of Eye	-	-	-	145
Congenital Anomalies of Ear, Face and Neck	-	-	-	145
Congenital Anomalies of Heart	-	150	-	145
Congenital Anomalies of Respiratory System	-	150	-	-
Cleft Palate and Cleft Lip	126	299	-	-
Other congenital anomalies of digestive system	-	-	152	-
Congenital anomalies of genital organs (including Undescended Testicles)	1,768	-	-	-
Congenital anomalies of urinary system	-	150	-	145
Congenital club foot	126	150	606	289
Other congenital anomalies of Limbs System	379	-	-	145
Other congenital anomalies of Musculo Skeletal System (including Funnel Chest and Pigeon Chest)	758	-	1,212	-
Congenital Anomalies of Skin, Hair and Nails	253	749	606	289
Congenital Syndromes affecting multiple system s	126	-	-	-
Swollen glands	1,894	1,647	-	434
Ill Defined Conditions (including Syncope and "Nerves")	379	-	152	289
Injuries	631	150	1,364	289

SCHOOL HEALTH SERVICE

# Rates of Defects per 100,000 Examined by Social Class

[illegible]



Defect	ENTRANTS						LEAVERS					
	SOCIAL CLASS					Total	SOCIAL CLASS				Other or not Stated	Total
	1	2	3	4	5		1	2	3	4	5	
Inflammatory condition of Eye (including sty) Boys	-	-	-	-	-	-	-	-	-	7,143	-	2,000
Girls	-	-	-	-	-	-	-	-	-	-	-	-
Boys	-	8,333	3,333	5,556	-	6,944	-	7,692	12,500	-	-	6,000
Girls	-	12,500	-	5,263	-	3,333	-	22,222	16,667	21,053	-	16,667
Boys	-	-	3,333	16,667	-	5,556	-	-	-	-	-	-
Girls	-	-	4,348	-	-	3,333	-	-	-	-	-	-
Boys	-	-	-	-	-	-	-	23,077	6,250	14,286	-	12,000
Girls	-	-	-	-	-	-	-	-	-	-	-	-
Boys	-	-	-	-	-	-	-	-	-	-	-	-
Girls	-	-	-	-	-	-	-	11,111	-	-	-	1,515
Boys	-	-	-	11,111	-	2,778	-	-	-	-	-	-
Girls	-	-	4,348	-	-	1,667	-	-	4,167	5,263	-	3,030
Organic disease of Heart and Blood Vessels Boys	-	-	-	-	-	-	-	-	-	-	-	-
Girls	-	-	-	-	-	-	-	11,111	-	-	-	1,515
Boys	-	-	-	5,556	-	1,389	-	-	12,500	-	-	4,000
Girls	-	-	-	-	-	-	-	-	-	-	-	-
Boys	-	16,667	20,000	16,667	-	18,056	-	7,692	-	7,143	-	4,000
Girls	100,000	25,000	26,087	26,316	-	25,000	-	11,111	-	15,789	-	6,061
Boys	-	-	-	-	-	-	-	7,692	-	-	-	2,000
Girls	-	-	-	-	-	-	-	-	-	-	-	-
Other diseases of Respiratory System (including common cold and bronchitis) Boys	-	8,333	-	5,556	-	2,778	-	-	-	-	33,333	2,000
Girls	-	-	4,348	10,526	-	8,333	-	11,111	-	-	20,000	4,545

Defect	ENTRANTS						LEAVERS							
	SOCIAL CLASS					Total	Other or not Stated	SOCIAL CLASS					Other or not Stated	Total
	1	2	3	4	5			1	2	3	4	5		
Dental Causes	Boys Girls	- -	8,333 -	- 4,348	11,111 26,316	50,000 -	6,944 11,667	14,286 12,500	- -	- -	- -	- -	- -	- -
Eczema	Boys Girls	- -	- -	- -	- -	- -	1,389 -	14,286 -	- -	6,250 -	- -	- -	- -	2,000 -
Acne	Boys Girls	- -	- -	- -	- -	- -	- -	- -	- -	- -	7,143 -	- -	- -	2,000 -
Other diseases of Skin (including corns and urticaria)	Boys Girls	- -	- -	- -	- -	- -	- -	- -	- -	4,167 -	- -	- -	- -	1,515 4,000
Pes Planus	Boys Girls	66,667 -	8,333 25,000	3,333 4,348	- 5,263	- -	5,556 6,667	- -	- -	6,250 8,333	7,143 5,263	- 20,000	- -	6,061
Hallux Vagus	Boys Girls	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- 12,500	1,515
Other minor deformities (including knock-knee)	Boys Girls	- -	8,333 -	- 17,391	11,111 5,263	- -	5,556 10,000	14,286 12,500	- 100,000	- 11,111	- 16,667	- 5,263	- -	- 10,606
Other Orthopaedic conditions (including Wry Neck)	Boys Girls	- -	- -	- -	- -	- -	- -	- -	- 100,000	- -	- -	- -	- -	- 1,515
Congenital Club-Foot	Boys Girls	- -	8,333 -	- -	- -	- -	1,389 -	- -	- -	- -	7,143 -	- -	- -	2,000 -
Other Congenital Anomalies of Musculo Skeletal System (including Funnel Chest and Pigeon Chest)	Boys Girls	- -	- -	- -	- -	- -	1,389 -	14,286 -	- -	- -	- -	- -	- -	- -



SCHOOL HEALTH SERVICE

NUMBERS, AVERAGE HEIGHTS AND WEIGHTS BY E.A. AREA AND SCOTLAND

Local Authority	ENTRANTS			LEAVERS		
	BOYS			BOYS		
	Number	Height (ins.)	Weight (lbs.)	Number	Height (ins.)	Weight (lbs.)
Aberdeen Burgh	1,359	42.82	43.56	1,313	42.43	42.46
	1,260	42.89	42.11	1,298	42.56	41.16
Dundee	2,213	42.80	42.51	2,181	42.56	41.59
	6,304	42.51	42.23	6,207	42.29	41.30
Glasgow	1,168	43.93	44.48	1,095	43.66	43.60
	792	43.92	44.72	668	43.61	44.08
Aberdeen County	448	44.61	46.17	396	44.16	44.94
	3,057	43.52	43.74	2,997	43.19	42.54
Argyll	369	43.44	43.84	324	42.89	42.41
	184	42.95	42.52	162	42.83	41.74
Banff	97	43.19	43.51	97	42.94	42.22
	266	43.52	43.64	257	43.54	43.47
Berwick	471	42.70	41.98	424	42.41	41.08
	701	43.82	43.10	686	43.62	42.51
Bute	2,457	43.38	43.18	2,304	43.04	42.16
	488	43.28	43.61	477	42.79	42.25
Caitness	2,399	43.21	42.84	2,292	42.77	41.69
	719	43.61	44.04	739	43.46	43.09
Clackmannan	189	44.33	44.78	163	43.98	43.94
	263	43.45	43.67	254	42.96	41.93
Dumfries County	5,399	43.77	43.72	5,164	43.44	42.76
	1,326	43.65	43.49	1,194	43.46	42.80
Dunbarton	559	43.04	42.82	514	42.71	41.74
	119	43.65	44.45	125	44.18	44.18
East Lothian	104	43.87	44.19	90	44.36	43.76
	1,027	43.45	43.46	936	43.49	43.01
Fife	3,346	42.91	42.52	3,245	42.58	41.73
	469	43.58	43.34	423	43.18	42.16
Inverness County	301	42.63	41.98	312	42.53	41.70
	131	42.76	41.85	126	42.42	41.35
Kirkcudbright	1,499	44.19	45.06	1,387	43.80	44.18
	115	43.93	44.30	108	43.48	43.80
Lanark	1,018	43.02	42.70	987	42.88	41.92
	239	43.53	43.99	213	43.24	43.10
Midlothian	67	45.75	47.25	44	45.50	46.82
	40,923	43.27	43.22	39,202	42.97	42.26
Moray and Nairn	104	43.87	44.19	90	44.36	43.76
	1,027	43.45	43.46	936	43.49	43.01
Orkney	3,346	42.91	42.52	3,245	42.58	41.73
	469	43.58	43.34	423	43.18	42.16
Perth and Kinross	301	42.63	41.98	312	42.53	41.70
	131	42.76	41.85	126	42.42	41.35
Peebles	1,499	44.19	45.06	1,387	43.80	44.18
	115	43.93	44.30	108	43.48	43.80
Renfrew	1,018	43.02	42.70	987	42.88	41.92
	239	43.53	43.99	213	43.24	43.10
Ross and Cromarty	67	45.75	47.25	44	45.50	46.82
	40,923	43.27	43.22	39,202	42.97	42.26
Roxburgh	104	43.87	44.19	90	44.36	43.76
	1,027	43.45	43.46	936	43.49	43.01
Selkirk	3,346	42.91	42.52	3,245	42.58	41.73
	469	43.58	43.34	423	43.18	42.16
Stirling County	301	42.63	41.98	312	42.53	41.70
	131	42.76	41.85	126	42.42	41.35
Sutherland	1,499	44.19	45.06	1,387	43.80	44.18
	115	43.93	44.30	108	43.48	43.80
West Lothian	1,018	43.02	42.70	987	42.88	41.92
	239	43.53	43.99	213	43.24	43.10
Wigtown	67	45.75	47.25	44	45.50	46.82
	40,923	43.27	43.22	39,202	42.97	42.26
Zetland	104	43.87	44.19	90	44.36	43.76
	1,027	43.45	43.46	936	43.49	43.01
Scotland	3,346	42.91	42.52	3,245	42.58	41.73
	469	43.58	43.34	423	43.18	42.16
	301	42.63	41.98	312	42.53	41.70
	131	42.76	41.85	126	42.42	41.35
	1,499	44.19	45.06	1,387	43.80	44.18
	115	43.93	44.30	108	43.48	43.80
	1,018	43.02	42.70	987	42.88	41.92
	239	43.53	43.99	213	43.24	43.10
	67	45.75	47.25	44	45.50	46.82
	40,923	43.27	43.22	39,202	42.97	42.26
	104	43.87	44.19	90	44.36	43.76
	1,027	43.45	43.46	936	43.49	43.01
	3,346	42.91	42.52	3,245	42.58	41.73
	469	43.58	43.34	423	43.18	42.16
	301	42.63	41.98	312	42.53	41.70
	131	42.76	41.85	126	42.42	41.35
	1,499	44.19	45.06	1,387	43.80	44.18
	115	43.93	44.30	108	43.48	43.80
	1,018	43.02	42.70	987	42.88	41.92
	239	43.53	43.99	213	43.24	43.10
	67	45.75	47.25	44	45.50	46.82
	40,923	43.27	43.22	39,202	42.97	42.26
	104	43.87	44.19	90	44.36	43.76
	1,027	43.45	43.46	936	43.49	43.01
	3,346	42.91	42.52	3,245	42.58	41.73
	469	43.58	43.34	423	43.18	42.16
	301	42.63	41.98	312	42.53	41.70
	131	42.76	41.85	126	42.42	41.35
	1,499	44.19	45.06	1,387	43.80	44.18
	115	43.93	44.30	108	43.48	43.80
	1,018	43.02	42.70	987	42.88	41.92
	239	43.53	43.99	213	43.24	43.10
	67	45.75	47.25	44	45.50	46.82
	40,923	43.27	43.22	39,202	42.97	42.26
	104	43.87	44.19	90	44.36	43.76
	1,027	43.45	43.46	936	43.49	43.01
	3,346	42.91	42.52	3,245	42.58	41.73
	469	43.58	43.34	423	43.18	42.16
	301	42.63	41.98	312	42.53	41.70
	131	42.76	41.85	126	42.42	41.35
	1,499	44.19	45.06	1,387	43.80	44.18
	115	43.93	44.30	108	43.48	43.80
	1,018	43.02	42.70	987	42.88	41.92
	239	43.53	43.99	213	43.24	43.10
	67	45.75	47.25	44	45.50	46.82
	40,923	43.27	43.22	39,202	42.97	42.26
	104	43.87	44.19	90	44.36	43.76
	1,027	43.45	43.46	936	43.49	43.01
	3,346	42.91	42.52	3,245	42.58	41.73
	469	43.58	43.34	423	43.18	42.16
	301	42.63	41.98	312	42.53	41.70
	131	42.76	41.85	126	42.42	41.35
	1,499	44.19	45.06	1,387	43.80	44.18
	115	43.93	44.30	108	43.48	43.80
	1,018	43.02	42.70	987	42.88	41.92
	239	43.53	43.99	213	43.24	43.10
	67	45.75	47.25	44	45.50	46.82
	40,923	43.27	43.22	39,202	42.97	42.26
	104	43.87	44.19	90	44.36	43.76
	1,027	43.45	43.46	936	43.49	43.01
	3,346	42.91	42.52	3,245	42.58	41.73
	469	43.58	43.34	423	43.18	42.16
	301	42.63	41.98	312	42.53	41.70
	131	42.76	41.85	126	42.42	41.35
	1,499	44.19	45.06	1,387	43.80	44.18
	115	43.93	44.30	108	43.48	43.80
	1,018	43.02	42.70	987	42.88	41.92
	239	43.53	43.99	213	43.24	43.10
	67	45.75	47.25	44	45.50	46.82
	40,923	43.27	43.22	39,202	42.97	42.26
	104	43.87	44.19	90	44.36	43.76
	1,027	43.45	43.46	936	43.49	43.01
	3,346	42.91	42.52	3,245	42.58	41.73
	469	43.58	43.34	423	43.18	42.16
	301	42.63	41.98	312	42.53	41.70
	131	42.76	41.85	126	42.42	41.35
	1,499	44.19	45.06	1,387	43.80	44.18
	115	43.93	44.30	108	43.48	43.80
	1,018	43.02	42.70	987	42.88	41.92
	239	43.53	43.99	213	43.24	43.10
	67	45.75	47.25	44	45.50	46.82
	40,923	43.27	43.22	39,202	42.97	42.26
	104	43.87	44.19	90	44.36	43.76
	1,027	43.45	43.46	936	43.49	43.01
	3,346	42.91	42.52	3,245	42.58	41.73
	469	43.58	43.34	423	43.18	42.16
	301	42.63	41.98	312	42.53	41.70
	131	42.76	41.85	126	42.42	41.35
	1,499	44.19	45.06	1,387	43.80	44.18
	115	43.93	44.30	108	43.48	43.80
	1,018	43.02	42.70	987	42.88	41.92
	239	43.53	43.99	213	43.24	43.10
	67	45.75	47.25	44	45.50	46.82
	40,923	43.27	43.22	39,202	42.97	42.26
	104	43.87	44.19	90	44.36	43.76
	1,027	43.45	43.46	936	43.49	43.01
	3,346	42.91	42.52	3,245	42.58	4

SCHOOL HEALTH SERVICE  
AVERAGE HEIGHTS AND WEIGHTS BY SOCIAL CLASS  
ANGUS

SOCIAL CLASS	ENTRANTS			LEAVERS		
	BOYS		GIRLS		BOYS	
	Height (ins.)	Weight (lbs.)	Height (ins.)	Weight (lbs.)	Height (ins.)	Weight (lbs.)
1	44.67	47.33	41.00	42.00	60.50	100.50
2	44.33	44.67	45.13	48.75	60.85	107.54
3	43.57	43.63	44.39	44.74	60.13	95.50
4	43.56	42.50	43.37	43.47	62.00	108.57
5	44.50	46.00	46.00	44.00	57.50	75.50
OTHER OR NOT STATED	44.14	44.43	43.63	44.88	59.33	93.33
TOTAL	43.82	43.82	44.03	44.83	60.70	101.56
					60.86	105.29

YEAR 1971

SCHOOL HEALTH SERVICE  
NUMBERS, AVERAGE HEIGHTS AND WEIGHTS BY SOCIAL CLASS  
SCOTLAND

SOCIAL CLASS	ENTRANTS						LEAVERS			
	Number	BOYS		Number	GIRLS		Number	BOYS		GIRLS
		Height (ins.)	Weight (lbs.)		Height (ins.)	Weight (lbs.)		Height (ins.)	Weight (lbs.)	
1	201	43.67	43.88	172	43.78	43.77	107	61.57	100.34	61.07
2	409	43.90	44.57	372	43.62	43.89	331	61.47	102.62	61.36
3	1,855	43.31	43.33	1,736	43.07	42.46	1,491	60.77	98.77	60.86
4	760	43.09	42.88	737	42.95	42.50	727	60.72	99.50	60.70
5	329	42.65	42.09	382	42.32	41.11	307	59.85	94.88	60.20
OTHER OR NOT STATED	394	42.77	42.05	409	42.37	41.38	325	59.48	93.80	59.81
TOTAL	3,948	43.24	43.17	3,808	42.98	42.42	3,288	60.64	98.52	60.71



SCHOOL HEALTH SERVICE  
NUMBERS, AVERAGE HEIGHTS AND WEIGHTS BY NUMBER IN FAMILY  
SCOTLAND

NO. IN FAMILY	ENTRANTS						LEAVERS					
	BOYS			GIRLS			BOYS			GIRLS		
	Number	Height (ins.)	Weight (lbs.)	Number	Height (ins.)	Weight (lbs.)	Number	Height (ins.)	Weight (lbs.)	Number	Height (ins.)	Weight (lbs.)
1	3,191	43.66	44.20	3,063	43.34	43.44	2,122	61.35	104.84	2,292	61.21	109.05
2	14,713	43.55	43.70	13,750	43.27	42.78	7,932	61.27	101.59	8,069	61.19	106.48
3	11,235	43.29	43.20	10,821	43.01	42.24	8,814	60.87	99.19	8,493	60.95	104.71
4	5,964	42.97	42.62	5,868	42.70	41.72	6,416	60.48	97.37	6,246	60.63	103.33
5	2,832	42.72	42.22	2,787	42.40	41.25	3,866	59.92	94.88	3,861	60.26	101.44
6	1,519	42.55	42.00	1,488	42.17	40.75	2,174	59.72	93.96	2,276	59.95	99.47
7	710	42.42	42.06	692	42.12	40.53	1,160	59.61	93.50	1,224	59.82	100.13
8	385	42.50	41.90	381	41.94	40.71	661	59.38	91.98	636	59.89	99.95
9	191	42.26	41.27	176	42.11	41.41	310	59.24	91.71	318	59.96	100.10
10	102	42.39	41.73	87	41.63	40.06	173	59.37	91.90	177	59.56	95.21
11	45	42.71	42.64	46	42.30	41.35	84	59.42	92.12	74	59.50	95.76
12	18	41.72	40.33	23	42.52	41.30	49	58.90	90.33	38	59.42	95.26
13	8	43.13	42.75	6	41.50	42.00	33	59.73	93.91	21	59.14	95.43
14	5	43.20	42.60	11	42.45	40.45	12	60.17	95.75	11	60.64	101.00
15	4	43.25	41.50	2	44.00	37.50	1	59.00	77.00	1	61.00	95.00
16	-	-	-	1	41.00	41.00	5	58.60	86.40	-	-	-
17	-	-	-	-	-	-	1	53.00	70.00	2	54.00	76.00
18	1	41.00	38.00	-	-	-	1	61.00	95.00	-	-	-

HANDICAPPED CHILDREN

The details of these children are included in the Annual Report of the Medical Officer of Health.

SCHOOL HEALTH SERVICE  
AVERAGE HEIGHTS AND WEIGHTS BY NUMBER IN FAMILY  
ANGUS

NO. IN FAMILY	ENTRANTS			LEAVERS		
	BOYS		GIRLS	BOYS		GIRLS
	Height (ins.)	Weights (lbs.)	Height (ins.)	Weight (lbs.)	Height (ins.)	Weight (lbs.)
1	44.40	45.40	43.84	60.69	102.92	61.29
2	43.98	44.91	43.84	60.85	99.14	61.27
3	43.89	44.83	43.49	60.79	99.63	60.84
4	43.91	43.90	43.30	60.10	98.68	60.81
5	43.74	45.58	43.43	60.19	96.91	60.70
6	42.69	41.31	42.13	60.04	101.15	60.31
7	41.40	41.40	43.00	60.22	98.11	60.17
8	45.00	46.00	42.50	59.80	85.60	61.00
9	-	-	-	58.00	89.50	56.50
10	42.00	42.00	-	52.00	66.00	-
11	42.50	43.00	-	60.00	106.00	-
12	-	-	-	-	-	61.00
						154.00

SCHOOL HEALTH SERVICE  
TESTS OF VISUAL ACUITY

Year of Birth	Number Examined		Normal*		Vision 6/9 6/12 in better eye		Vision 6/18 or Less in better eye	
	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls
A. ENTRANTS i.e. year of birth 1966	816	702	784(29)	676(22)	28	23	4	3
B. 7 to 8 years old i.e. year of birth 1964	830	686	803(35)	657(30)	25	27	2	2
C. 9 to 10 years old i.e. year of birth 1962	762	716	744(29)	693(26)	13	18	5	5
D. LEAVERS i.e. year of birth 1958	658	681	640(32)	648(27)	13	27	5	6
	3066	2785	2971(125)	2674(105)	79	95	16	16

\* These figures include these children with 6/6 vision one eye and 6/12 or worse other eye.  
These have been totalled separately and are shown as figures in brackets ( ).

SCHOOL HEALTH SERVICE  
AUDIOMETRY SWEEP TESTS

No Audiometry tests were carried out this year.

YEAR 1971/72  
AREA ANGUS

SCHOOL HEALTH SERVICE  
SPECIAL EXAMINATIONS

	Number Examined		Number with Defects	
	Boys	Girls	Boys	Girls
SELECTED BY MEDICAL OFFICER	-	-	-	-
referred by:-				
TEACHER	10	12	4	8
EDUCATIONAL PSYCHOLOGIST	-	-	-	-
SCHOOL NURSE	-	-	-	-
SOCIAL WORK AGENCIES	-	-	-	-
PARENT	-	4	-	2
FAMILY DOCTOR	-	-	-	-
OTHER SOURCES	1	-	1	-
RE-EXAMINATIONS	2876	2633	1263	1175
TOTALS	2887	2649	1268	1185

SCHOOL HEALTH SERVICE  
STAFF STATISTICS

Category of Staff	Establishment agreed by Council	Number in Post at end of School Year				Number of Vacancies at End of School Year
		Whole-time	Part-time	Whole-Time Equivalent of Part-Time	Total Whole-Time Equivalent	
MEDICAL OFFICERS	6	-	6	1 at 25% 1 at 40% 2 at 60% each 2 at 30% each	2.45	Nil
HEALTH VISITORS	15(4)*	-	15	6 at 10% each 4(4)* at 7% each 5 at 3.5% each	1.055	Nil
NURSES (R.G.N.'s, S.R.N.'s, etc.)	17(1)*	-	17	1 at 75% 1(1)* at 72% 14 at 3.5% each 1 at 40%	2.36	Nil
NURSES (S.E.N.'s)	-	-	-	-		Nil
PHYSIOTHERAPISTS	1 supplied by Hospital Board	-	1	1 at 30% (part-time since March, 1972)	0.33	Nil
ORTHOPTISTS	-	-	-	-	-	Nil
AUDIOMETRICIANS	-	-	-	-	-	Nil
OTHERS	-	-	-	-	-	Nil

\*The bracketed numbers refer to staff working in Schools in the Burgh of Arbroath.

PUBLIC HEALTH DEPARTMENT,  
RAVENSWOOD,  
FORFAR, SEPTEMBER, 1973

To –

To County Council of Angus  
The Scottish Home and Health Department.

Ladies and Gentlemen,

As requested by the Scottish Home and Health Department in Circular No. 13/1972 I herewith submit Report for the year 1972.

This report deals briefly with most of the functions carried out by the Department and includes a section on River Pollution Prevention.

I am,  
Your obedient Servant,  
ROBERT A. TAYLOR,  
County Sanitary Inspector.



## MILK SPECIAL DESIGNATIONS (SCOTLAND) ORDER, 1965

The following table shows the number of licences in each category.

	Licences held on 31.12.71	New licences granted	Licences suspended	Licences revoked	Licences discontinued for other reasons	Licences held on 31.12.72
Premium	15	-	-	-	1	14
Standard	75	-	-	-	6	69
Pasteurised	1	-	-	-	-	1
Sterilised	-	-	-	-	-	-

## ABSTRACT OF BACTERIOLOGICAL SAMPLES FOR YEAR

No. of Bacteria per ml.		Premium	Standard
Between	0 - 2,000	102	216
	2,000 - 10,000	68	293
	10,000 - 15,000	28	126
	15,000 - 50,000	-	80
over	50,000	8	40
		Premium	Standard
No. of samples taken		206	755
No. of samples passed count test		198	715
B. coli present in 1/100th		13	-
B. coli present in 1/1000th		-	35

Of the 961 samples taken 877 or 91.26% complied with the bacteriological requirements of the Milk (Special Designations)(Scotland) Order. 84 or 8.74% did not comply in the following respects:—

12 exceeded the bacterial count and coliform bacilli were also present.

36 showed the presence of coliform bacilli and had low counts.

36 exceeded the bacterial count with no coliform bacilli present.

No. of dairymen who complied in every case 48

No. of dairymen who failed once 22

No. of dairymen who failed twice 7

No. of dairymen who failed three or more times 8

## SCHOOL MILK

15 samples of school milk were taken. All of these samples passed the statutory tests.

## PASTEURISING PLANT

18 samples of milk were taken from the Pasteurising Plant at Brechin. All of these samples passed the statutory tests.

## BULK MILK TANKS

5 producers have still not yet installed bulk tanks. On the other hand several producers have installed larger tanks and even two tanks in order to cope with their increased production.

Labour saving devices are still being introduced.

13 producers have installed automatic tank-washing machines.

## FARM IMPROVEMENTS

43 milking parlours are now operating in the County and 7 farmers intend converting their present byres to the parlour system. 13 farmers still use the bucket type of milking machine.

## BRUCELLOSIS

Every sample of milk taken by this Department and submitted for bacteriological examination at Stracathro Hospital was also subject to the Brucellosis Ring Test. In addition, the Bacteriological Department at Dundee University carried out Brucellosis Ring Tests and also Brucellosis Culture Tests on every producer's milk. At the end of 1972 over 60% of all dairy herds in Angus were accredited.

## FOOD HYGIENE

Routine visits were made to all types of food premises throughout the year and in the main the standard of hygiene was fairly high.

Where the standard fell below what was required, particular attention was given to these premises, regular visits were made and warning letters sent to the persons concerned. This action appeared to have the desired effect and accordingly no legal action was taken during the year.

Regular inspections were also carried out on food vehicles trading throughout the area.

## ICE CREAM

Number of new registrations granted during the year:—

in respect of premises	-	4
in respect of vehicles	-	4

The total number of registrations in force at 31st December, 1972 were as follows:-

Premises for Manufacture, Storage & Sale	-	19
Premises for Storage & Sale	-	28
Vehicles	-	14

Thirty four samples of ice cream were taken for bacteriological examination or chemical analysis. There were four bacteriological failures as a result of which the offending premises and manufacturing plants were examined and follow up samples taken. Thirteen ice cream manufacturers were advised of the incorrect labelling of their product and at the end of the year all of these manufacturers had provided the necessary notices within their premises.

## FOOD SAMPLING

A total of 153 samples of foodstuffs were taken for analysis of which 31 were taken formally.

Article	Formal		Informal		Remarks
	Exam-ined	Adulter-ated	Exam-ined	Adulter-ated	
Baking Powder		-	1	-	
Bread	-	-	1	-	
Cheese	-	-	2	-	
Coffee	-	-	1	-	
Cream	-	-	1	-	

Article	Formal		Informal		Remarks
	Exam-ined	Adulter-ated	Exam-ined	Adulter-ated	
Dried Fruit	-	-	1	-	
Flour Mixtures	-	-	2	-	
Fruit (Preserved)	-	-	1	-	
Ice Cream	-	-	26	13	Contained non-milk fat without declaration
Jams	-	-	4	-	
Meat Pies	1	1	9	-	14.8% deficient in meat. Manufacturer warned.
Meat Pastes	-	-	2	-	
Milk	2	-	4	1	Contained 0.02 I.U./ml. antibiotic
Mince	6	-	2	1	96pp. SO <sub>2</sub> outwith permitted period. Follow up sample genuine
Mayonnaise	-	-	1	-	
Sausages	6	-	3	-	
Soft Drinks	-	-	5	-	
Spices	-	-	1	-	
Spirits	16	2	-	-	Rum 61.2° Proof — Fined £40 Whisky 69.3° Proof — No. action
Sugar Confectionery	-	-	8	-	
Sauces	-	-	2	-	
Other Articles	-	-	45	1	Tinned Tomatoes Howard Mould Count - 15% above average recommended. Importer informed.
	31	3	122	16	

### UN SOUND FOOD

The following foodstuffs were dealt with as being unfit for human consumption:—

		Weight (in lbs.)	Total
(a) Tinned Foods:-	Meat	442	
	Milk Products	58	
	Vegetables	89	
	Fruit	99	
	Coffee	5	
	Soup	192	885
(b) Open Foods:—	Meat	920	
	Liver	60	
	Pasteurised Eggs	60	1,040
(c) Frozen Foods:-	Meat	67	
	Fish	91	
	Poultry	603	
	Confectionery	28	
	Ice Cream	65	
	Vegetables	42	896
			<u>2,821</u>

## MEAT INSPECTION

Ante mortem and post mortem inspections of all animals slaughtered in the public abattoir at Forfar and the private abattoir at Brechin are carried out by this Department. The following tables detail the number of animals slaughtered and the quantities of meat that was found to be unfit for human consumption.

### FORFAR

	No. Slaughtered	Wholly Condemned	Partially Condemned	Weight (in lbs.) of Condemned	
				Meat	Offal
Cattle	5,559	159	1,930	56,860	25,192
Sheep	4,771	122	309	4,720	949
Pigs	1,294	29	162	3,721	452
Calves	55	8	1	418	56
Totals	11,679	318	2,402	65,719	26,649

### BRECHIN

	No. Slaughtered	Wholly Condemned	Partially Condemned	Weight (in lbs.) of Condemned	
				Meat	Offal
Cattle	1,905	39	213	16,129	4,289
Sheep	1,832	53	34	1,927	235
Pigs	5,152	80	182	5,485	353
Calves	132	45	2	1,881	176
Totals	9,021	217	431	25,422	5,053

## PUBLIC CLEANSING

### 1. REFUSE COLLECTION

The present service is experiencing an upward trend in the amount of refuse being collected. This is probably due to the gradual disappearance of focal dumps in estates and farms. On average 120 tons of refuse are being collected weekly by 5 vehicles.

This year cleansing vehicles became subject to annual testing for road worthiness, resulting in a steep increase in maintenance costs.

Preparatory work is in progress for the extension of the scavenging district due to commence in May, 1973 after which all householders in the landward area will receive a refuse collection.

### 2. REFUSE DISPOSAL

Several meetings of the Joint Refuse Disposal Steering Committee of all Angus Authorities took place over the year culminating in a comprehensive report from the Consultants. The main recommendations from the committee are:—

1. An incineration process should be used.
2. The plant should be capable of burning sewage sludge.
3. The capacity of the plant should be 2 x 4.5 tons/hr. twin stream plant, with no heat recovery, with water spray cooling and working 2 shifts/5 day/week.
4. Recommended site for the plant is on outskirts of Leysmill.

On 15th September, 1972 a Public Meeting was held in Priockheim to inform local residents of the Committee's recommendations. The meeting was very well attended and in addition to local inhabitants others interested such as Conservationists, Wild Life Protectionists, etc. were well represented.

The relevant points of concern to the local inhabitants were smoke nuisance and smell nuisance and the Committee were able to give full re-assurance on these issues.

The outcome of the Meeting, however, was that the Committee would investigate alternative sites suggested at the Meeting and a promise was given that if the original site proves to be best in the eyes of the Committee a further public meeting will be convened before definite steps are taken to proceed with the project.

### 3. CIVIC AMENITIES

Continual work took place throughout the year cleaing up after selfish people who despoil the countryside by their unnecessary indiscriminate dumping. Clearing up is both difficult and expensive since the location usually chosen is in a wood or some other beauty spot.

### 4. DEPOSIT OF POISONOUS WASTE

Due to Government concern over indiscriminate and uncontrolled dumping of dangerous waste, legislation was hurried through Parliament in March, 1972. It then became an offence to deposit any poisonous noxious or polluting waste in circumstances which could give rise to an environmental hazard to persons, animals or water supply.

Subsequent Regulations made in August 1972 controlled the Notification of Removal or Deposit of Poisonous Waste and gave a wide range of exemptions from the notification requirements. "Poisonous Waste" is not described and it is therefore the onus of the Local Authority to interpret the toxicity of materials mentioned in applications by manufacturers. Substances of complex chemical description calls for close co-operation amongst River Board, Public Analyst, Works Chemist and Local Authorities.

The legal requirement for depositors of poisonous waste is merely to give the Local Authority three clear days' notice of intention to deposit. Tip operators must refuse to accept poisonous waste on their tip unless accompanied by the appropriate notice but exempted materials, or alleged exempted materials, can be accepted.

To assist manufacturers who are depositing poisonous waste regularly a "season ticket" procedure has been adopted whereby permission to dump, covering a period of three months, is given.

In October, 1972 a joint Meeting of Local Authorities and River Board was held to discuss the problems which had arisen. Many procedural points were agreed but in practice it would appear that the handling of certain poisonous wastes by tip operators is not proving attractive and it may be that manufacturers will experience increasing difficulties in their search for established outlets for their disposal of certain wastes.

Liquid wastes create problems on tips and it is interesting to note that the position in Angus County in relation to the disposal of used engine oil from garages, etc. has been greatly alleviated by the establishment of a waste-oil collection service by the Board Engineer of a County Hospital. The collected oil is used to operate the Hospital boiler plant.



## FACTORIES ACT, 1961

The year commenced with 115 premises (including 1 slaughterhouse) on the Register.

One contractor (pipe laying) was placed on the Register and on completion of the contract was taken from the Register.

During 1972, the Register was depleted by the loss of 7 factories, Balbirnie Mills closing down, a motor vehicle scrap merchant at Careston becoming self-employed and 5 factories becoming part of Dundee City following the City extension of boundary.

The number of factories at the end of year is 108.

## COMPLAINTS & NUISANCES

The following complaints and nuisances were dealt with during the year:—

Water supply	6
Drainage	21
Housing	5
Accumulations of Manure & Refuse	9
Offensive Smells	7
Smoke	2
Rats	9
Other Pests	3
Pollution of Ditches, etc.	15
Foreign Matter in Food	11
Noise	2
Miscellaneous	16
	<hr/>
	106
	<hr/>

## PREVENTION OF DAMAGE BY PESTS ACT, 1949

The total work done by the District Inspectors and the Pest Officer entailed 1,987 visits of inspections and treatments required numbered 295. 3 properties were cleared of rat infestation by the occupiers. Control methods varied according to the conditions existing but mainly "Warfarin" poison was successfully used.

## WATER SUPPLY

During the year forty one samples of water were taken for bacteriological examination or chemical analysis. Of these, twenty seven samples were taken following complaints by members of the public or for information required by the Medical Officer of Health. Samples for bacteriological examination are taken from public supplies fed by Lintrathen Loch and Loch Lee and all of the nine samples examined were satisfactory. Five samples were taken for Agricultural grant purposes when Landowners were proposing improvements to farm water supplies.

## CARAVAN SITES AND CONTROL OF DEVELOPMENT ACT, 1960

At the end of the year there were seven residential and seven holiday sites licensed by Angus County Council.

Routine inspections were carried out during the year, particular attention being given at peak holiday periods when it is possible that site operators exceed the permitted



number of caravans. No serious contraventions were noted and no complaints were received throughout the year.

Most sites are well run and site licensing conditions generally observed by the operators.

## OFFICES, SHOPS AND RAILWAY PREMISES ACT, 1963

### NARRATIVE REPORT FOR THE YEAR ENDED 31st DECEMBER, 1972

#### 1. REGISTRATION & INSPECTIONS

Routine inspections of all offices and shops in the area were carried out throughout the year. In one or two instances new occupiers of existing business premises had failed to register and these people were obviously under the impression that, once registered a business did not require new registration for change of occupier. However, no difficulty was encountered in having these persons complete the necessary registration form.

#### 2. OPERATION & GENERAL PROVISIONS OF THE ACT

No particularly bad standards were observed during the visits to premises, most of the contraventions being of a minor nature, such as shortage of first-aid equipment and no display of the abstract of the Act, although the latter was generally to be found in some obscure place on the premises. Those premises which appear to give most trouble are the smaller shops where only one or perhaps two or three part-time employees work. These premises always find it difficult to understand why their "little" shop requires to meet similar standards such as large stores, supermarkets and offices. Although complaining of having to meet the standards required, these small premises generally co-operate and provide any requirements under the provisions of the Act.

#### 3. ACCIDENTS

No accidents were encountered or reported during the year.

#### 4. PROSECUTIONS

No prosecutions were undertaken during the year.

**TABLE A**  
**Registrations and General Inspections**

Class of Premises (1)	Number of premises newly registered during the year. (2)	Total Number of registered premises at end of year. (3)	Number of registered premises receiving one or more general inspections during the year. (4)
Offices	-	25	23
Retail Shops	2	26	23
Wholesale Shops, warehouses	-	1	1
Catering establishments open to the public, canteens	1	19	19
Fuel Storage depots	-	-	-
Totals	3	71	66

**TABLE B**

NUMBER OF VISITS OF ALL KINDS (INCLUDING  
GENERAL INSPECTIONS) TO REGISTERED PREMISES

TABLE C

**Analysis by Workplace of Persons employed in  
Registered Premises at End of Year**

Class of workplace (1)	Number of persons employed (2)
Offices	120
Retail shops	63
Wholesale departments, warehouses	23
Catering establishments open to the public	147
Canteens	-
Fuel storage depots	-
Total	353

Total Males : 167

Total Females : 186

**BUILDING (SCOTLAND) ACTS, 1959-70**

A total of 653 applications for Building Warrants representing a capital works value of £3,095,478 were received and dealt with during the year. Of these 466 were major warrants, an increase of 176 compared with last year and 187 were minor warrants a decrease of 9 on last year.

Details of these warrants and their values are shown on the tables below.

Details of Warrants granted:—

	Public	Total Value	Private	Total Value
Houses	4	£ 24,700	313	£ 1,942,699
Schools	17	323,000	-	-
Factories	-	-	- 2	14,000
Miscellaneous	4	6,680	125	685,459
Shops	-	-	1	1,700
Offices	-	-	-	-

Refusals — Nil

Details of Minor Warrants granted:-

	Public	Total Value	Private	Total Value
Houses	-	-	80	£ 52,709
Schools	-	-	-	-
Factories	-	-	-	-
Miscellaneous	1	£ 350	105	42,181
Shops	-	-	1	2,000
Offices	-	-	-	-

Refusals — Nil.

## THE BUILDING (SCOTLAND) ACTS, 1959 and 1970

### SECTION 4 — RELAXATION OF BUILDING STANDARDS REGULATIONS BY THE BUILDINGS AUTHORITY

The Buildings Authority dealt with 10 applications for relaxation during the year.

These applications were for relaxation in respect of standards of daylighting, ceiling heights, distance between daylighting windows, distance from boundary and requirements for constructional hearths for oil-fired boilers.

8 applications were approved — 1 was refused and 1 was withdrawn.

### NEW BUILDING LEGISLATION

The following new Building legislation came into operation during the year:—

1. The Building Standards (Scotland) Amendment No. 2 (Metrication) Regulations, 1971.
2. The Building Standards (Scotland) Amendment No. 3 Regulations, 1971.
3. The Building Standards (Scotland)(Consolidation) Regulations, 1971.
4. The Building Standards (Relaxation by Building Authorities)(Scotland) No. 2 Regulations, 1971.

#### THE BUILDING STANDARDS (SCOTLAND) AMENDMENT NO. 2 (METRICATION) REGULATIONS, 1971

These regulations came into operation on 1st January, 1972 and their purpose is the metrication of the building standards regulations which is an essential step in the programme which the construction industry has undertaken to change to the metric system in accordance with the programme prepared by the British Standards Institution.

#### THE BUILDING STANDARDS (SCOTLAND) AMENDMENT NO. 3 REGULATIONS, 1972

These regulations came into operation on 1st January, 1972.

Among the principal changes brought about by the amendments are new regulations dealing with structural strength and stability of buildings. The new requirements and the supporting deemed-to-satisfy specifications are based on the latest British Standards Codes of Practice and in addition prescribe measures to be taken in buildings of five or more storeys in height to prevent progressive collapse in the event of accidental damage.

Other changes introduced by the amendment regulations include bringing together the requirements for stairways, landings and balconies into a separate part of the regulations; the modification of the ventilation requirements for rooms in houses and certain other buildings; and setting of less onerous standards for the siting of garages, car ports and garden huts associated with houses. The opportunity has also been taken to bring the references to British Standards and Codes of Practice up to date.

#### THE BUILDING STANDARDS (SCOTLAND) (CONSOLIDATION) REGULATIONS 1971

These regulations came into operation on 9th February, 1972 and brought within one volume the extensive amendments to the 1970 consolidated regulations.

**THE BUILDING STANDARDS (RELAXATION BY  
BUILDING AUTHORITIES)(SCOTLAND)  
NO. 2 REGULATIONS, 1971**

These regulations came into operation on 14th February, 1972.

They are made under the Building (Scotland) Acts, 1959 and 1970 and revoke and re-enact with certain amendments the Buildings Standards (Relaxation by Buildings Authorities)(Scotland) Regulations, 1971. The principal amendment extends the power of building authorities to dispense with or relax provisions of the building standards regulations in relation to the alteration or extension or change of use of a particular building to include not only existing dwellinghouses covered by the revoked regulations but also all other existing buildings built or approved before 15th June, 1964. The regulations also empower buildings authorities to dispense with or relax provisions of the building standards regulations in relation to the erection of buildings which are ancillary to houses built or approved before 15th June, 1964. The delegation extends to any provision covered by Parts D, E, F, G, H, J, K, L, M, P, Q, R, or S of the building standards regulations.

**BUILDING (SCOTLAND) ACT, 1959 – PART III  
DANGEROUS BUILDINGS**

No properties were dealt with during the year.

## ANGUS COUNTY COUNCIL

### AS RIVER PURIFICATION AUTHORITY

#### Information as to Water Resources:

1. Rainfall :                      Rainfall records of the River North Esk Catchment area are available and may be inspected at the office of the County Sanitary Inspector, Ravenswood, Forfar.  
  
Six rain gauges are maintained by the East of Scotland Water Board and I am indebted to the Engineer who makes the records available to this Department. Daily readings are taken from four of the gauges, while the remaining two are recorded monthly. The monthly exchange of the rainfall recorded at Whitechillocks and at the Climatological Station R.A.F., Edzell with the County Sanitary Inspector, Stonehaven, continues.
2. Characteristics of Stream :                      Routine sampling of the rivers North and South Esk is carried out regularly.  
  
Routine sampling of the River North Esk is effected in co-operation with Kincardine County River Purification Authority and the Analyst's report on all samples are exchanged.  
  
All records are available for inspection at the office of the County Sanitary Inspector.
3. Abstraction of Water :                      No action was taken by this authority during the year.
4. General :                      The rainfall records of gauging stations in the catchment area of the River North Esk are tabulated in Appendix A.

## PREVENTION OF POLLUTION

### QUALITY OF RIVER WATER

The quality of water flowing in the main rivers continues to be satisfactory. The routine samples taken in the Rivers North Esk and South Esk, in accord with the Analyst's reports show a classification variation from Very Clean to Fairly Clean, except for one sample from the South Esk above Brechin which was in the "Doubtful" category.

The classification scale for stream water recommended by the Royal Commission on Sewage Disposal used as follows:-

	Character of Stream Classification				B.O.D. in five days (p.p.m.)
Very Clean	...	...	...	...	1
Clean	...	...	...	...	2
Fairly Clean	...	...	...	...	3
Doubtful	...	...	...	...	5
Bad	...	...	...	...	10

Details of the fifty-five samples of stream water taken during the year are shown in Appendix B.

A map of the area of the River Authority showing the river systems and sampling points is inserted at the end of this report.



## STANDARDS APPLIED TO EFFLUENTS

The undernoted standards have been used to assess the suitability of any sewage effluent discharged into a stream.

1. The biochemical oxygen demand (B.O.D.) in five days at 20°C not to exceed 20 p.p.m.
2. The suspended solids content, dried at 105°C not to exceed 30 p.p.m.
3. The pH value to be between five and nine
4. The oxygen absorbed from acid n/80 permanganate in four hours at 26.7°C not to exceed 20 p.p.m.
5. Arsenic, copper or chromium, either individually, or in toto not to exceed 0.5 p.p.m.
6. Cyanide (as CN) not to exceed 0.1 p.p.m.
7. No visisble oil or grease to be present.
8. The clarity to be at least 225 mm.
9. The discharge not to contain any toxic substances harmful to fish or other aquatic fauna.

In the case of plants providing full treatment except for the settlement of filter effluent, it is expected that when a sample of the effluent is given quiescent settlement for one hour the supernatant liquid shall conform to the above standards.

Plants providing only sedimentation, or septic tanks, are expected to discharge an effluent with less than 100 parts per million solids in suspension. Effluents discharging to watercourses which have less than eights volumes of water available as dilution have to conform to more stringent standards.

The standards presently used to determine the quality of the sewage effluent discharged from Brechin Sewage Purification Works differ in respect of the B.O.D. which should not exceed 100 p.p.m. and the suspended solids content which should not exceed 50 p.p.m.

Trade effluents merit individual assessment.

## SAMPLES AND ANALYSIS OF EFFLUENTS

### SEWAGE EFFLUENTS

The analyst's findings on the seven samples of sewage effluent discharging to streams are tabulated below.

The B.O.D. and/or suspended solids were reported to exceed the standards in three of the samples analysed, one sample no returned B.O.D. could be given as the sample was lost during analysis.

The lowest and highest figures are expressed in parts per million.

	Satisfactory	Unsatisfactory	Lowest	Highest
B.O.D.	3	3	2.2	795
Suspended Solids	5	2	3.0	136

### NEW OUTLETS AND DISCHARGES

All plans and proposals submitted to the County Council involving new drainage and discharges to streams within the Authority's area are carefully considered. Should it be possible to dispose satisfactorily of the effluent by some means other than to a water-course, the promoter is advised accordingly.



The procedure has effected a considerable reduction in the number of applications for consent to new outlets and for new discharges to be dealt with.

	New Outlets	New Discharges
(a) Number of applications in hand at the beginning of the year	-	-
(b) Number of applications received during the year	17	4
(c) Number of consents issued	14	3
(d) Number of consents refused	-	-
(e) Number of applications in hand at the end of the year	3	1

## SEWAGE AND TRADE EFFLUENTS

No developments have been made during the year which could adversely affect the quality of the streams.

## REMEDIAL ACTION

### (A)

The following work of a minor nature was done during the year to remove pollution of streams:-

LITTLE LOUR – Sealed tank provided to hold silage effluent.

CHAPELTON OF MENMUIR – Ten tile drain pipes removed near silo.

JUSTICE HALL AND BRECHIN GOLF CLUB House – Drain cleared – subsequently Golf Club House drainage connected to village sewer.

EAST PITFORTHIE – Silo concrete floored – drained to existing tank.

NORANBANK FARM – Pit dug to contain silage effluent.

WATERSTON OF CARESTON – Pit dug to contain silage effluent.

HALLKIRK KIRKDEN – Concrete kerb provided at silo.

BALLINSHOE – Two ditches cleaned out.

BANDOCH SAND QUARRY – Sand settling lagoon cleaned out.

GLENCOULL MILL LADE – Piped supply of river water provided.

EDZELL SEWAGE WORKS – Village sewer chokage cleared.

ARRAT'S MILL – Water flow in lade restored.

BOYSACK QUARRY – Petrol/oil interceptor provided on drain.

CHAPELTON OF KINNORDY – Sealed tank built to hold piggery and silage effluents.

DUBTON DAIRY FARM, BRECHIN – Tank provided to hold slurries and silage effluents.

### (B)

No legal actions were taken during the year.

## RESEARCH

There is nothing to report under this heading.

## OTHER GENERAL INFORMATION

Eighteen complaints of alleged pollution of streams received were investigated.

The table below details these complaints. In one instance further investigation cannot be undertaken until late spring of next year and the removal of the fifteen pollutions found are contained in the "REMEDIAL ACTION" Section.

Type of Pollution	Number of Complaints	Complaint Not Substantiated	Remarks
Oil	2	-	One slight - cleared during enquiry
?	2	1	One still being investigated.
Sludge	3	-	Four ditches cleaned out and cause removed.
Sewage Fungus	3	2	Due to Dubton Dairy Farm, Brechin
Silage Effluent	4	-	Two new sources. Dealt with Two due to delay in emptying tanks.
Fish Mortality	1	-	Cause not found.
Septic Tank Effluent	1	-	Water flow restored to Mill Lade.
Algal Growths	1	-	Pond owner advised
Sewage	1	-	Village sewer cleared.

Contracts for the improvement of Brechin Sewage Purification Works were finalised by the end of the year and it is expected that the work will start early next year.

Appendix A  
Rainfall Statistics  
River North Esk Catchment Area

Site of Rain Gauge	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	1972 Total Rainfall (mm)
Stables, Glen Lee	Three Months 496.5			98.8	160.5	99.0	48.9	70.5	15.6	56.9	121.9	150.1	1,318.7
Bridge of Lee	436.4	154.4	77.2	86.9	125.5	129.1	39.0	67.7	9.6	43.2	106.4	132.8	1,408.2
Inchgrundle	330.0	167.5	66.7	93.4	120.6	134.2	35.7	64.3	7.5	49.4	118.7	141.3	1,329.3
Invermark	310.0	155.7	72.4	74.2	118.6	109.2	36.0	62.4	7.8	48.4	110.0	121.3	1,226.0
Whitchillocks, Glen Esk	312.2	157.6	54.7	67.6	113.7	84.7	29.3	59.7	5.1	60.5	137.6	165.3	1,248.0
R.A.F. Station, Edzell	154.9	77.7	37.6	35.3	67.1	93.7	26.4	63.5	7.1	17.0	33.5	19.6	633.4
Kinnaber, Montrose	78.8	75.7	40.3	27.9	71.1	61.3	19.5	49.6	10.8	15.5	45.2	42.8	538.5

To convert millimetres to inches    divide by 25.4.

# Appendix B River North Esk

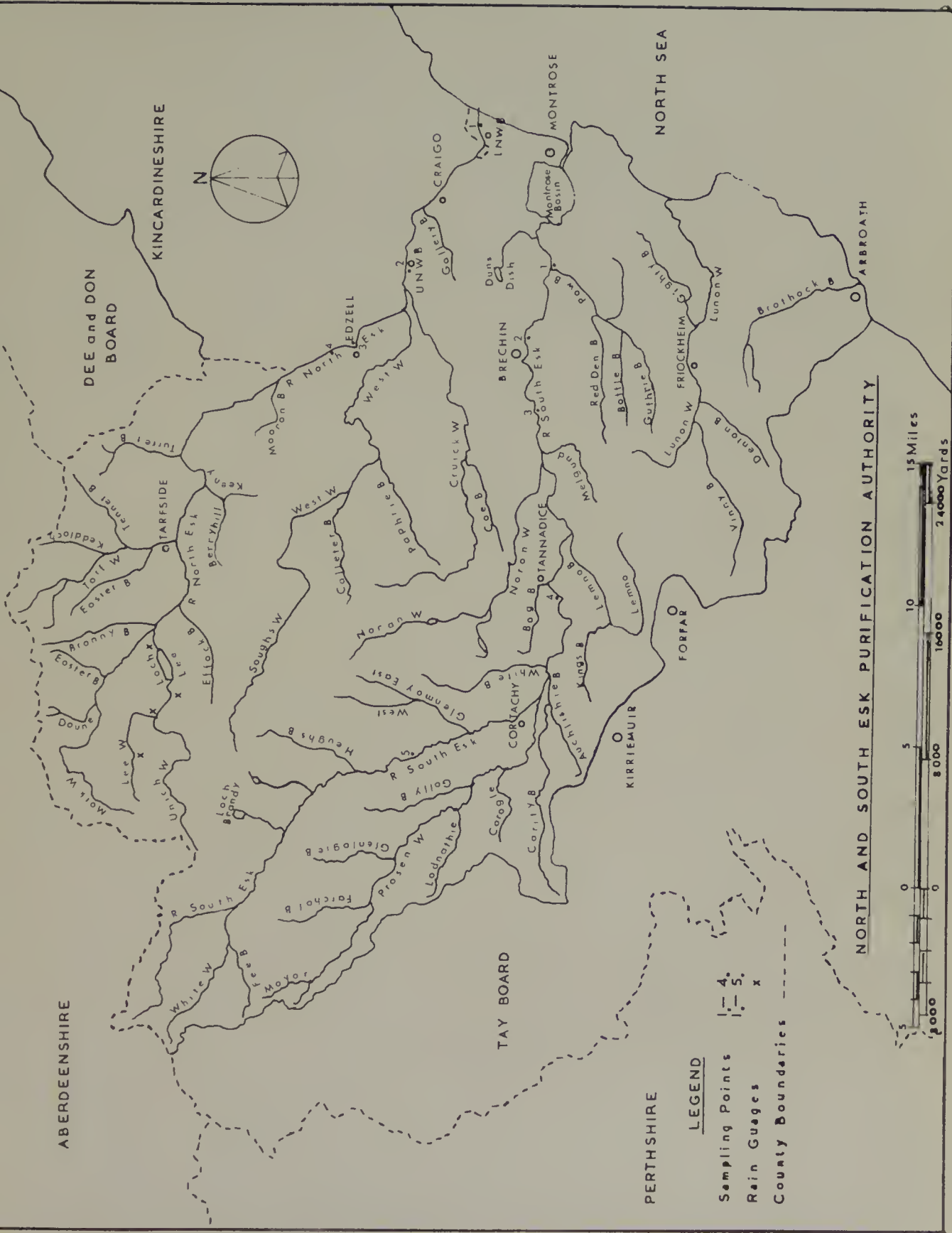
Date	20.4.72	18.5.72	22.6.72	20.7.72	17.8.72	20.9.72	12.10.72	
Sampling Point	BOD	Clas'n	BOD	Clas'n	BOD	Clas'n	BOD	Clas'n
1. Above Edzell	1.3	C.	0.31	V.C.	0.31	V.C.	0.19	V.C.
2. Below Edzell	1.4	C.	1.0	V.C.	0.50	V.C.	0.44	V.C.
			1.63	C.			0.18	V.C.
							1.0	V.C.

# River South Esk

Date	20.4.72	18.5.72	22.6.72	13.7.72	31.8.72	28.9.72	19.10.72	
Sampling Point	BOD	Clas'n	BOD	Clas'n	BOD	Clas'n	BOD	Clas'n
1. Near Kinnaird Viaduct	3.0	F.C.	0.19	V.C.	1.25	C.	2.37	F.C.
2. Below Brechin	2.4	F.C.	1.87	C.	2.01	F.C.	1.73	C.
3. Above Brechin	1.1	C.	0.68	V.C.	0.81	V.C.	1.92	C.
			1.31	C.			2.2	F.C.
							3.6	Doubtful

# APPENDIX B (continued) Other Samples from Streams

Date	Stream	Parts per million		Suspended Solids	Remarks
		BOD			
24.5.72	Kinaldie Burn	3.7		3	Complaint
24.5.72	Ethie Castle Pond	2.76		6	Complaint
31.5.72	Ditch to Brothock Water	Greater than 3.9		21	For Information
31.5.72	Dubton Farm Drain (Skinner's Burn)	1.38		10	For Information
31.5.72	Drain at Dubton Farm, Brechin	1.3		29	For Information
29.6.72	Ditch to Brothock Water	5.89		14	For Information
20.7.72	Ditch on Brechin Golf Course	313.7		32	Investigation
31.8.72	Skinner's Burn near Brechin	>85		7	For Information
31.8.72	Skinner's Burn below Dubton Drain	>371		766	For Information
31.8.72	Skinner's Burn above Dubton Drain	1.47		12	For Information
31.8.72	Un-named Stream below Ballinshoe	>175		142	
7.9.72	Boganlochey Burn above Drain	0.77		7	
7.9.72	Boganlochey Burn at Drain	13.82		25	
7.9.72	Boganlochey Burn below Drain	6.14		42	
19.9.72	Lemno Burn	2.2		20	At request of Farmer
5.10.72	Un-named Stream at Cotton of Turin	5.12		50	Complaint
19.10.72	Drain discharge into Boganlochey Burn	533		9	Investigation
30.11.72	Skinner's Burn near Brechin	2.30		3	For Information
30.11.72	Skinner's Burn below Dubton drain	42.6		48	For Information
30.11.72	Skinner's Burn above Dubton drain	2.11		7	For Information



NORTH AND SOUTH ESKE PURIFICATION AUTHORITY

LEGEND

- Sampling Points 1, 2, 3, 4, 5
- Rain Gauges x
- County Boundaries - - -







